

# **Fort St. John Pilot Project**

## **SUSTAINABLE FOREST MANAGEMENT PLAN 2017/18 CSA AND REGULATORY ANNUAL REPORT**

**For the period April 1, 2017 to March 31, 2018**

BC Timber Sales  
Canadian Forest Products Ltd.  
Cameron River Logging Ltd.  
Louisiana-Pacific Canada Ltd.  
Mackenzie Pulpmill Corp.  
Dunne-za LP  
Peace Valley OSB



**Final Report**  
October 30, 2018



**Fort St. John Pilot Project**

**Sustainable Forest Management Plan**  
**2017 CSA and Regulatory Annual Report**  
For the period April 1, 2017 to March 31, 2018

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## EXECUTIVE SUMMARY

### Highlights of 2017-18

- **Seventh year under SFMP** - The 2017-18 reporting year was the seventh year of operation under SFMP# 2. SFMP #3 was approved on May 4<sup>th</sup>, 2018 reporting to the new SFMP will start next year.
- **Fire salvage** - During the summer of 2017, 3 forest fires burned a combined area of 11.3ha within the DFA. No salvaging occurred within the fires due to the small size and poor timber quality of the area impacted.
- **Pine beetle salvage** - Our salvage harvesting program continued during the reporting period to recover Lodgepole pine timber damaged by the Mountain Pine Beetle within the Fort St. John TSA. During the reporting period the manufacturing facility received 1,133,519m<sup>3</sup> of coniferous logs from quota and Crown purchase sources, excluding oil and gas salvage and Woodlot license areas. The total received from the pine-leading log strata was 167,133 m<sup>3</sup> approximately 14.7% of the total volume received from quota and Crown purchase sources.
- **Spruce beetle sanitation/salvage** – Canfor designed 51 new blocks around susceptible spruce stands with signs of spruce beetle attack as identified in the forest health surveys completed in 2017. These blocks were added to the FOS through FOS amendment 324. Beetle probing was completed on 49 of these blocks. Trap trees were felled in 5 of the blocks where live beetle were identified during beetle probing. These blocks will be harvested in winter 2018/2019 to help reduce the spruce beetle population.
- **Market improvement** - Market conditions continued to improve in the the 2017/18 reporting period. The FSJ sawmill operated under a 2-shift scenario throughout the 2017/18 reporting period.
- **Indicator performance** - The participants achieved consistent positive performance regarding overall conformance to indicator targets with 64 of 67 (95.6%) indicator targets achieved in the 2017-18 year.
- **Legal indicator performance** - For the period of April 1, 2017 to March 31, 2018, the participants achieved the performance indicator objectives on 26 of the 28<sup>1</sup> regulatory landscape level strategy indicators (Section 42 of the FSJPPR, or affecting Part 3 Division 5 of the FSJPPR-see Section 11).

### Summary of Participants Consistency with the Landscape Level Strategies

The participants' progress in implementing the landscape level strategies contained in the SFMP, as measured by the degree of achievement of the target or acceptable variance of the regulatory indicators, is detailed in [Section 11](#), and summarized as follows:

Timber Harvesting Strategy - Activities were consistent with the targets or acceptable variances on 100% (7 of 7) of the Fort St. John Pilot Project Regulation (FSJPPR) Section 42 performance indicators, and 100% (3 of 3) of non-regulatory SFMP indicators (CSA indicators) linked to the Timber Harvesting Strategy.

Access Management Strategy - Activities were consistent with the targets or acceptable variances on 100% (2 of 2) of the FSJPPR Section 42 performance indicators, and 100% (1 of 1) of the Section 35 (6) performance standard indicators and 100% (1 of 1) of non-regulatory SFMP indicators (CSA indicators) linked to the Access Management Strategy.

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<sup>1</sup> Two indicators, # 2 (Seral Stage) and # 3 (Patchsize) apply to both Forest Health and Patch Size/Seral Stage Landscape Level Strategies

Patch Size, Seral Stage and Adjacency Strategy - Activities were consistent with the targets or acceptable variances on 75% (3 of 4) of the FSJPPR Section 42 performance indicators, and 50% (1 of 2) of the Section 35 (6) performance standard indicators linked to the Patch size, Seral Stage and Adjacency Strategy. The Wildlife Tree Retention target was not achieved on 1 of 11 Landscape Units.

Riparian Management Strategy - Activities were consistent with the targets or acceptable variances on 100% (4 of 4) of the FSJPPR Section 42 performance indicators, and 100% (2 of 2) of the Section 35 (6) performance standard indicators linked to the Riparian Management Strategy.

Visual Quality Management Strategy - Activities were assessed as being consistent with the target or acceptable variance for the Section 42 performance indicator on blocks requiring assessment prior to the end of the reporting period. Therefore, activities were consistent with the target or acceptable variance on 100% (1 of 1) of the Section 42 performance indicator linked to the Visual Quality Strategy.

Forest Health Management Strategy - Activities were consistent with the targets or acceptable variances on 80% (4 of 5) of the Section 42 performance indicators and 100% (1 of 1) non regulatory SFMP indicators linked to the Forest Health Management Strategy.

Range and Forage Management Strategy - Activities were consistent with the targets or acceptable variances on 100% (2 of 2) of the Section 42 performance indicators, and 100% (1 of 1) non regulatory SFMP indicators linked to the Range and Forage Management Strategy.

Reforestation Strategy (conifer) - Activities were consistent with the targets or acceptable variances on 100% (4 of 4) Section 42 performance indicators, on 100% (2 of 2) Section 35 (6) performance standard indicators and 100% (1 of 1) non-regulatory SFMP indicators linked to the Reforestation Strategy.

Soil Management Strategy – Activities were consistent with the target or acceptable variance for the Section 42 performance indicator linked to the Soil Management Strategy.



**Summary of Changes to the Indicator’s or their Status**

The following table summarizes non-conformances to indicators in the 2017 reporting year, and revisions made to the SFMP for the reporting year (note that indicators in **red text** refer to those related to regulatory requirements under the FSJPPR).

Indicator	Non Conformance
Indicator 9- <b>Wildlife Tree Patches</b>	Indicator was not met in the Lower Beaton LU
Indicator 49- <b>Forest Health FOS Planning</b>	The number of pine leading FOS blocks was below target
Indicator 56- Maintenance of Wildlife and Fisheries Habitat Values	This indicator was not met because it is linked to the WTP target.
Indicator	Significant Revisions,
none	

SFMP #3 was not approved prior to the commencement of the reporting period measured in this annual report (April 1 2017-March 31, 2018). Some indicators as written in SFMP #2 have time frames which had expired prior to the 2017-2018 reporting period (for example, the SFMP #2 cut control period ended in 2017). For these indicators, we used the draft SFMP #3 indicator and target statement. As a result, this year’s annual report was a combination of indicators and targets from SFMP #2 and draft SFMP #3.

SFMP #3 was approved May 4, 2018. Therefore, the 2018-2019 Annual report prepared next year will report on the participants performance to indicators and targets as written in SFMP #3.

This report was discussed with the Fort St John Pilot Project Public Advisory Group on October 23, 2018.

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## 1. INTRODUCTION AND OVERVIEW

This annual report summarizes activities completed between April 1, 2017 and March 31, 2018 on tenures managed by participants in the Fort St. John Pilot Project. Activities occurred on the following tenures: BC Timber Sales, FL A18154 and PA 12 held by Canadian Forest Products Ltd; FL A59959 held by Cameron River Logging Ltd.; FL A60972, held by Mackenzie Pulp Mill Corp.; FL A60050, FL A60049 and PA 20 held by Louisiana-Pacific Canada Ltd.; FL A85946 held by Louisiana Pacific - Peace Valley OSB; and FL A56771 jointly held by Dunneza Ventures and Canadian Forest Products Ltd.

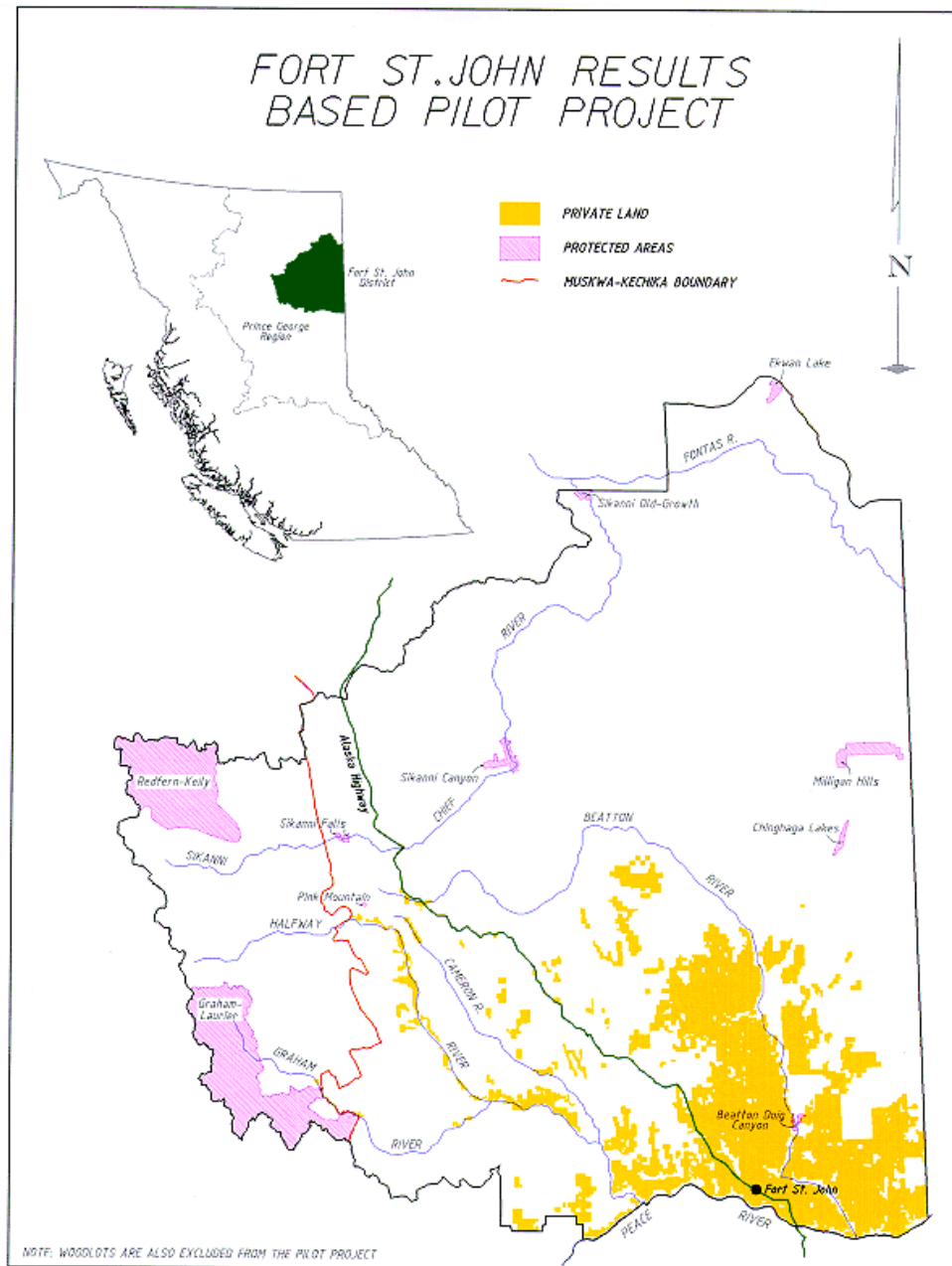


Figure 1: Project Area Map

The Pilot Participants achieved registration under the Canadian Standards Association CAN/CSA Z809-02 Sustainable Forest Management System for the Fort St. John TSA (see Figure 1) forestry operations on October 17, 2003. In partial fulfillment of achieving registration, a public group, the Public Advisory Group (PAG), was formed in 2001 to help identify and select values, objectives, indicators, and targets for sustainable forest management. The original indicators and targets identified by the PAG, along with associated forest management practices to achieve those objectives, were detailed in the Sustainable Forest Management Plan# 1 (SFMP# 1) and revised in SFMP# 2. The participant's registration was most recently renewed on December 3, 2014. The 2017 Annual Report is a summary report on the status of each indicator. The report includes revisions to the indicators, targets, or the way they are measured, as noted in amendment # 3 to SFMP# 2. Future revisions, if any, to the indicators, targets, or the way they are measured will be captured in subsequent annual reports.

This report is prepared annually, as required by the CSA standard and the *FSJPPR*. In this report, each indicator is reiterated, and a brief status report is provided in Section 3. For additional background information on the indicators and targets, or the implementation and monitoring requirements, the reader should refer to the SFMP and SFMP amendments.

In addition to CSA requirements, this report includes information required by the *FSJPPR* (Section 51) on the participants' access management, harvesting, and reforestation activities (Sections 4 to 7), as well as variances (Section 8), compliances (Section 9), plan amendments (Section 10), and a statement on progress on Landscape Level Strategies (Section 11). **The section headings and appendices of this report that address the legal requirements of the *FSJPPR* are identified in the table of contents, as well as throughout the report, in red text.**

The following indicators are reported on periodically, typically at the close of an SFMP/FOS management period. For greater clarity, these indicators are analyzed at the time the SFMP is developed and in addition, when a new FOS is developed to ensure that a new FOS is consistent with the SFMP. The condition of these indicators has been reported in the 2017-18 annual report. The indicators referenced are:

- 1 - Forest Types
- 2 - Seral Stages
- 3 - Patch Size
- 8 - Shrubs
- 17 - Representative Examples of Ecosystems
- 34 - Peak Flow Index

Analysis of these indicators, and comparison against the condition present when the SFMP was developed, illustrates both the effect of changing stand dynamics (i.e. forests aging) and the impact of the participants' activities in the DFA. The results presented here will account for the areas amended into the FOS, in response to wildfires, Mountain Pine Beetle, and the harvest needs of the Participants between 2010 and 2018.

These indicators are anticipated to be reported on again in the 2022-23 annual report.



Monitoring procedures as outlined in the SFMP were followed to the best of the participants' abilities. However, full description for all the detailed procedures used in the analyses was not always available due to incomplete documentation and staffing changes. Therefore, the participants had to make some assumptions during analysis that may or may not have been consistent with those done previously. In the participant's estimation, variation resulting from this uncertainty is likely to be quite low, but still possible.

Another source of potential variation likely lays in the private land, lease, and woodlot spatial data used. To complete the analyses for this Annual Report, the participants utilized the most current private land, lease, and woodlot data. The data for these items available to the participants at the time the SFMP was developed was unreliable, and has not been archived. Changes in these data has resulted in a minor reduction in the size of the forested land base managed by the participants.

These issues account for the variation in the forest inventory data presented between the analyses completed when the SFMP was developed and those completed to reflect the current forest condition for the 2009 and this the 2017 annual report.

## 2. DESCRIPTION OF THE PILOT PROJECT

In June 1999 the BC government added Part 10.1 to the *Forest Practices Code of BC Act* to enable results-based pilot projects. The intent of the pilot projects is to test ways to improve the regulatory framework for forest practices while maintaining the same or higher levels of environmental standards.

Canadian Forest Products Ltd., Slocan Forest Products Ltd., Louisiana-Pacific Canada Ltd., and the Ministry of Forests Small Business Forest Enterprise Program prepared a detailed pilot project proposal that provided the basis for the *Fort St. John Pilot Project Regulation* (FSJPPR). In 2001, the participants established a public advisory group (PAG) comprised of local people representing a variety of interests. The public advisory group reviewed the draft detailed project proposal and draft regulation, reviewed comments from the general public and provided advice to government on the suitability of the project. Cabinet accepted the proposal and a draft regulation late in 2001. The regulation was approved as effective December 1, 2001.

The *Fort St. John Pilot Project Regulation* requires the establishment of a strategic plan for the pilot project area, known as a Sustainable Forest Management (SFM) Plan. The participants prepared the SFMP with the guidance of a local public advisory group and a scientific/technical advisory committee.

The SFMP was approved by the Regional Manager, Northern Interior Forest Region, Ministry of Forests and the Regional Director, Omineca-Peace Region, Ministry of Water, Land and Air Protection, in April 2004. A revised SFMP was prepared and submitted to Government for approval in July 2010. SFMP# 2 has undergone thorough review by the PAG, First Nations, the public and scientific technical advisors and Government. Government on November 1, 2010 approved SFMP # 2.

SFMP# 3, which is based on SFMP# 2 was prepared during 2015 and has undergone thorough review by the PAG, First Nations, the public and scientific technical advisors and Government. SFMP# 3 was submitted to government for approval on May 30, 2016 and revised on April 18, 2017. SFMP #3 was given conditional approval on May 4, 2018 by the

### 3. SFM INDICATORS, OBJECTIVES AND TARGETS

The format of each status report is described below:

#### X.X INDICATOR

Indicator Statement	Target Statement
A reiteration of the indicator as identified in the landscape level strategy or the SFM matrix.	A specific statement describing a desired future state or condition of an indicator. Targets are succinct, measurable, achievable, realistic, and time bound.
<b>SFM Objective:</b> A description the SFM objectives that this indicator and target relate to.	
<b>Linkage to FSJPPR:</b> If applicable, a brief statement regarding whether this indicator affects performance requirements of the FSJPPR, or if it will be used to evaluate success of the implementation of the landscape level strategy.	

#### Acceptable Variance:

This provides the acceptable variance from the desired level of the indicator.

#### CURRENT STATUS AND COMMENTS

This section provides an update on the status of each indicator and objective. The best information available up to and including March 31, 2018 (except where noted) was used for the preparation of this status report.

Target Achieved	
✓ Yes	No

#### REVISIONS

When required, this section describes suggested revisions to details (e.g., wording, reporting periods) of the indicator and objective. These revisions will be presented to the PAG for their review.



**Status of Indicators in 2017-18**

**3.1. FOREST TYPES**

Indicator Statement	Target Statement
Percent distribution of forest type (deciduous, deciduous mixedwood, conifer mixedwood, conifer) >20 years old by landscape unit	All forest type groups by landscape unit will meet or exceed the minimum area percentage in Table 9. <sup>2</sup>
<b>SFM Objective:</b> Maintain the diversity and pattern of communities and ecosystems within a natural range Ecosystem functions capable of supporting naturally occurring species exist within the range of natural variability	
<b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the <i>FSJPPR</i> this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Forest Health Landscape Level Strategy.	

**Acceptable Variance:**

There is no acceptable variance for this indicator.  
 Targets may need to be reviewed following large natural catastrophic events.

**CURRENT STATUS AND COMMENTS**

This indicator monitors the change in the proportion of forest type groups (> 20 years old), within broad groups based on leading tree species, over time. Stands less than 20 years of age are not included as they typically show significant fluctuations in tree species composition each year due to things such as silviculture practices or rapid natural ingress of species in regenerating stands. Forest type groups are the designation of stand types into one of 4 ecologically significant groups – pure deciduous, deciduous leading mixedwood, conifer leading mixedwood, and pure conifer.

The following table (Table 1) is taken from Forest Operations Schedule #3, and presents the baseline status as of 2017 and the SFMP targets by Forest Type and Landscape Unit. All forty-four Forest Type / Landscape Unit combination targets were found to be above the target minimums, and therefore consistent with the SFMP target.

The participants’ activities are consistent with the target for this indicator. The analysis for this indicator will be conducted again when significant amendments to the Forest Operations Schedule are proposed (eg. Significant addition of proposed block area).

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<sup>2</sup> Refers to Table 9 in the *Fort St. John Pilot Project Sustainable Forest Management Plan #2*



Table 1:2017 Status for Forest Types

Landscape Unit	Forest Type	2017 current status		Min Target Area
		Area (ha)	% of L.U.	%
Blueberry	Coniferous Leading	156706	41%	33%
	Coniferous Mixed	44109	12%	8%
	Deciduous Leading	125321	33%	28%
	Deciduous Mixed	54135	14%	11%
Blueberry Total		380270		
Crying Girl	Coniferous Leading	54310	93%	76%
	Coniferous Mixed	1818	3%	1%
	Deciduous Leading	915	2%	1%
	Deciduous Mixed	1164	2%	1%
Crying Girl Total		58207		
Graham	Coniferous Leading	217145	95%	77%
	Coniferous Mixed	5227	2%	1%
	Deciduous Leading	3748	2%	1%
	Deciduous Mixed	3416	1%	1%
Graham Total		229536		
Halfway	Coniferous Leading	91975	73%	62%
	Coniferous Mixed	8698	7%	3%
	Deciduous Leading	15426	12%	9%
	Deciduous Mixed	9436	8%	4%
Halfway Total		125535		
Kahntah	Coniferous Leading	95973	40%	29%
	Coniferous Mixed	23186	10%	10%
	Deciduous Leading	86178	36%	30%
	Deciduous Mixed	34257	14%	10%
Kahntah Total		239594		
Kobes	Coniferous Leading	40457	45%	35%
	Coniferous Mixed	10127	11%	8%
	Deciduous Leading	29484	33%	28%
	Deciduous Mixed	9988	11%	9%
Kobes Total		90056		
Lower Beatton	Coniferous Leading	14040	14%	11%
	Coniferous Mixed	6784	7%	5%
	Deciduous Leading	69195	70%	56%
	Deciduous Mixed	8519	9%	7%
Lower Beatton Total		98538		
Milligan	Coniferous Leading	85504	59%	45%
	Coniferous Mixed	9692	7%	6%
	Deciduous Leading	40048	28%	24%
	Deciduous Mixed	9668	7%	5%
Milligan Total		144911		
Sikanni	Coniferous Leading	151088	95%	75%
	Coniferous Mixed	3008	2%	1%
	Deciduous Leading	3001	2%	1%
	Deciduous Mixed	2152	1%	1%
Sikanni Total		159250		
Tommy Lakes	Coniferous Leading	149471	50%	45%
	Coniferous Mixed	29899	10%	8%
	Deciduous Leading	73617	25%	18%
	Deciduous Mixed	44272	15%	9%
Tommy Lakes Total		297258		
Trutch	Coniferous Leading	116855	56%	48%



	Coniferous Mixed	18389	9%	7%
	Deciduous Leading	47023	23%	17%
	Deciduous Mixed	25408	12%	9%
	Trutch Total	207674		
Grand Total		2030828		

Reforestation is balanced on the landscape using the mixedwood ledger for the area that is impacted by harvesting which accounts for a small percentage of the landscape unit. Large variances in the forest type areas are due to updated VRI information.

Change Monitoring Inventory (CMI)

Starting in 2003, the Participants have contracted the establishment of Change Monitoring Inventory plots in the Defined Forest Area on harvested or burnt areas. The location of these plots is on a systematic 3km square grid overlaid on the DFA. It is intended to establish plots on predefined points located on the grid, where they fall in managed stands, 15 years after harvest. Over time and subsequent re-measurements, the data from these plots can be used to detect long-term changes in managed stands' species composition. CMI work is dependant on contractor availability and budgets and will include establishment of new plots as well as re-measurement effort of plots established at least 10 years ago.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions planned for this indicator.

**3.2. SERAL STAGES**

Indicator Statement	Target Statement
The minimum proportion (%) of late seral stage forest by NDU	The minimum proportion (%) of late seral forest by NDU as identified in Table 11 <sup>3</sup> will be met.
<p><b>SFM Objective:</b>            Maintain the diversity and pattern of communities and ecosystems within a natural range            Ecosystem functions capable of supporting naturally occurring species that exist within the range of natural variability            Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress</p>	
<p><b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the FSJPPR this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Patch Size, Seral Stage and Adjacency and Forest Health Management Landscape Level Strategies.</p>	

<sup>3</sup> Refers to Table 11 in the Fort St. John Pilot Project Sustainable Forest Management Plan #2



**Acceptable Variance:**

A 1% variance below the target is permissible provided projections indicate the target can be met within 20 years (eg. Boreal Foothills minimum allowable would be 22%).

**CURRENT STATUS AND COMMENTS**

The Seral Stages indicator is in place to ensure that a minimum proportion of late seral stage forest will be present across the DFA through time. It sets limits on harvest planning in later seral stage stands, by Natural Disturbance Unit (note, in SFMP#1 the limits pertained to Landscape Units). A landscape-level analysis (based on NDUs) was conducted when FOS #3 was developed. The projection through 2025, which considered all the newly proposed FOS blocks, indicates that the amount of area in late seral stands through 2025 will be above the minimum targets set for all NDUs in the DFA. Therefore the participants are consistent with the target for this indicator.

The following tables (Table 2, Table 3, Table 4) are excerpted from the FOS#3, and present the results of the most recent seral stage analyses. The 'current condition' values account for the harvesting activities that started prior to March 31,2017. For further detail regarding seral stages target development and application, please refer to the *Fort St. John Pilot Project Sustainable Forest Management Plan #2 (section 6.2)* and the *Fort St. John Pilot Project Forest Operations Schedule #3. (section 3.3)*.

The analysis for this indicator will be conducted again when significant amendments to the Forest Operations Schedule are proposed (eg. Significant addition of proposed block area).





**Table 2: Boreal Plains Conifer Current and 2025 Seral Stage and Target**

LU_NAME	< 40 years				41 - 100 years				101 - 140 years				> 140 years				Total Area			
	2017		2025		2017		2025		2017		2025		2017		2025					
	area (ha)	%	area (ha)	%	area (ha)	%	area (ha)	%	area (ha)	%	area (ha)	%	area (ha)	%	Surplus (ha)	area (ha)		%	Surplus (ha)	
Blueberry	59410	17%	61911	18%	148573	43%	141809	41%	92814	27%	84738	24%	45741	13%		58080	17%		346538	
Crying Girl		0%		0%		0%		0%	3	32%		0%	7	68%		10	100%		10	
Halfway	11944	8%	16182	11%	29040	20%	23512	16%	49798	34%	41485	28%	55489	38%		65093	45%		146271	
Kahntah	6831	1%	6767	1%	395913	67%	337770	58%	144102	25%	182690	31%	40406	7%		60026	10%		587252	
Kobes	14037	17%	15077	18%	10722	13%	10762	13%	37992	46%	31967	39%	19035	23%		23982	29%		81787	
Lower Beaton	19202	42%	19398	42%	16023	35%	13656	30%	9049	20%	10621	23%	1953	4%		2554	6%		46227	
Milligan	29617	8%	28901	8%	244595	65%	241125	64%	45332	12%	37986	10%	59481	16%		71012	19%		379025	
Sikanni		0%		0%		0%		0%	0	100%	0	100%		0%			0%		0	
Tommy Lakes	22563	4%	37445	7%	215421	39%	183368	33%	217759	39%	218253	39%	103357	18%		120034	21%		559100	
Trutch	2258	1%	6018	2%	126169	36%	107972	31%	131570	38%	131558	38%	87138	25%		101586	29%		347134	
Grand Total	165862	7%	191698	8%	1186456	48%	1059972	43%	728419	29%	739297	30%	412607	17%	25187	502376	20%	100747	2493343	
														Oil and gas area included:		16%		20%		2518676

Target = 16%

2017 - uses FOS blocks with harvest start date <Mar 31, 2017

2025 - uses FOS blocks with harvest start date >Mar 31, 2017

Table 2 identifies the current and expected 2025 conifer seral condition upon the completion of all harvest activities proposed by FOS# 3 for the Boreal Plains NDU. Upon completion of all conifer harvest activities proposed in FOS# 3 the conifer seral targets are achieved for the Boreal Plains NDU and the analysis indicates a surplus of 100,747 ha of old forest (amount of old forest above the target).

Analysis also considered the cumulative effect of harvesting and oil and gas on the landbase. The calculated area occupied by wellsites and pipelines is 25,333ha, by adding this area (25,333ha) to the harvested area, the Boreal Plains Conifer late seral current condition is 16% and future is 20%.



**Table 3: Boreal Plains Deciduous Current and 2025 Seral Stage and Target**

LU_NAME	< 40 years				41 - 100 years				> 140 years						Total area
	2017		2025		2017		2025		2017			2025			
	area (ha)	%	area (ha)	%	area (ha)	%	area (ha)	%	area (ha)	%	surplus (ha)	area (ha)	%	surplus (ha)	
Blueberry	17320	9%	26845	14%	101907	55%	93261	50%	67578	36%		66699	36%		186805
Crying Girl		0%		0%	5	100%	3	62%	0	0%		2	38%		5
Halfway	1599	6%	3692	14%	10475	41%	8415	33%	13531	53%		13497	53%		25604
Kahntah	2737	2%	3084	2%	98870	79%	86639	69%	24111	19%		35996	29%		125718
Kobes	3013	8%	7700	19%	10911	27%	7696	19%	26222	65%		24750	62%		40146
Lower Beatton	10618	13%	9990	12%	59051	70%	54504	64%	15189	18%		20364	24%		84858
Milligan	6059	12%	5534	11%	42256	81%	42553	81%	4130	8%		4358	8%		52445
Tommy Lakes	4859	4%	17272	14%	58998	49%	49532	41%	56354	47%		53407	44%		120211
Trutch	612	1%	2186	3%	39857	53%	34940	47%	34045	46%		37388	50%		74514
Grand Total	46817	7%	76303	11%	422329	59%	377543	53%	241160	34%	129287	256460	36%	143652	710306
Oil and gas area included										34%			36%		718260

Target = 16%

2017 - uses FOS blocks with harvest start date <Mar 31, 2017

2025 - uses FOS blocks with harvest start date >Mar 31, 2017

Table 3 identifies the current and expected 2025 deciduous seral condition upon the completion of all harvest activities proposed by FOS# 3 for the Boreal Plains NDU. Upon completion of all deciduous harvest activities proposed in FOS# 3 the deciduous seral targets are achieved for the Boreal Plains NDU and the analysis indicates a surplus of 143,652 ha of old forest (amount of old forest above the target).

Analysis also considered the cumulative effect of harvesting and oil and gas on the landbase. By including oil and gas area in the calculation (7,954ha) the Boreal Plains Deciduous late seral current condition is 34% and future is 36%.



**Table 4: Boreal Foothills Valley and Mtn, Northern Boreal Mountains, Omineca Mtns and Valley: Current and 2025 Seral Stage and Targets**

NDU Sub-Unit	Landscape Unit	< 40 years				40 - 100 years				101 - 140 years				> 140 years				Grand Total	Target
		2017		2025															
		Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%	Area	%		
Boreal Foothills - Mountain	Crying Girl	931	2%	792	2%	4020	10%	3087	7%	19132	46%	16118	38%	17845	43%	21930	52%	41927	
	Graham	1870	2%	1817	2%	10561	13%	6597	8%	41091	49%	35436	42%	30960	37%	40632	48%	84482	
	Halfway	15	0%	15	0%	2069	16%	1764	13%	4471	34%	3335	25%	6636	50%	8077	61%	13192	
	Kobes									8	54%	8	54%	7	46%	7	46%	15	
	NDU Total	2815	2%	2624	2%	16650	12%	11448	8%	64702	46%	54897	39%	55448	40%	70646	51%	139616	33
Boreal Foothills - Valley	Crying Girl	1386	7%	977	5%	2747	13%	2561	12%	9308	45%	8560	41%	7347	35%	8689	42%	20787	
	Graham	218	0%	47	0%	6741	13%	4502	8%	22847	43%	19927	38%	23298	44%	28628	54%	53104	
	Halfway	7	0%	7	0%	211	13%	138	9%	435	28%	349	22%	916	58%	1076	69%	1570	
	Kobes									86	49%	82	47%	89	51%	93	53%	175	
	Grand Total	1611	2%	1032	1%	9699	13%	7201	10%	32675	43%	28918	38%	31650	42%	38486	51%	75636	23
Northern Boreal Mountains	LU_NAME	Young		Young		Mid		Mid		Mature		Mature		Old		Old		Grand Total	
	Graham	245	1%	4	0%	5732	18%	3918	12%	7997	25%	8367	26%	18025	56%	19708	62%	31998	
	Sikanni	822	0%	86	0%	23262	13%	14790	8%	57350	32%	58108	33%	96379	54%	104829	59%	177813	
	Trutch									4	100%	4	100%					4	
	Grand Total	1067	1%	90	0%	28994	14%	18708	9%	65350	31%	66479	32%	114404	55%	124537	59%	209815	37
Omineca Mountains	LU_NAME	Young		Young		Mid		Mid		Mature		Mature		Old		Old		Grand Total	
	Crying Girl					33	18%	33	18%	115	64%	91	51%	32	18%	56	31%	180	
	Graham	290	0%	288	0%	5026	5%	4699	5%	26616	27%	20915	21%	68227	68%	74257	74%	100159	
	Grand Total	290	0%	288	0%	5059	5%	4732	5%	26731	27%	21006	21%	68259	68%	74313	74%	100338	41
Omineca Valley	LU_NAME	Young		Young		Mid		Mid		Mature		Mature		Old		Old		Grand Total	
	Crying Girl					0		0		3.9	57%	3.9	57%	2.9	43%	2.9	43%	6.8	
	Graham	141.8	2%	138.3	2%	1146.4	13%	926.2	11%	4392.6	51%	3561.4	42%	2887.8	34%	3942.7	46%	8568.6	
	Grand Total	141.8	2%	138.3	2%	1146.4	13%	926.2	11%	4396.5	51%	3565.3	42%	2890.7	34%	3945.6	46%	8575.4	16



Table 4 identifies the current and expected 2025 seral condition upon the completion of all harvest activities proposed by FOS# 3 for the Boreal Foothills Mountain and Valley, NDUs, the Omineca Mountains and Valley NDUs and the Northern Boreal Mountains NDU. Upon completion of all harvest activities proposed in FOS# 3 the seral targets are achieved for each of these NDUs.

Landscape units are large and in the foothills area, can have more than one natural disturbance units due to elevational changes.

The seral analysis assumes that all blocks in FOS# 3 will have been harvested prior to the end of 2025. The seral analysis indicates that all NDU old forest targets are met in 2017 and 2025. Therefore, performance to date and projected performance under FOS# 3 is consistent with this indicator.

Target Achieved	
✓ Yes	No

**REVISIONS**

Revisions to this indicator will be considered over the next 1-2 years in light of the SFMP #3 approval letter.

**3.3. PATCH SIZE**

Indicator Statement	Target Statement
Percent area by Patch Size Class (0-50, 51-100, and >100 ha) by NDU	A minimum of 9 of 18 of the baseline targets for early patches will be achieved during the term of this SFMP (Table 16) <sup>4</sup>
<p><b>SFM Objective:</b>                      Maintain the diversity and pattern of communities and ecosystems within a natural range Ecosystem functions capable of supporting naturally occurring species that exist within the range of natural variability</p>	
<p><b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the FSJPPR this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Patch Size, Seral Stage and Adjacency Strategy.</p>	

**Acceptable Variances:**

Natural disturbance events that shift the patch size distribution to such a level that it cannot be accommodated in a short (decade) time frame.

Seral spatial distribution does not permit patch size targets in the short term.

Patch size distributions will need to be recalculated as new forest inventory is completed and targets and thresholds assessed to determine if they are still appropriate.

<sup>4</sup> Refers to Table 16 in the Fort St. John Pilot Project Sustainable Forest Management Plan #2



**CURRENT STATUS AND COMMENTS**

This indicator is set up to monitor the patch size distribution for ‘early’ ( $\leq 40$  yrs) forest within the Fort St. John Pilot Project area, on a Natural Disturbance Unit basis (note, in SFMP#1 the limits pertained to Landscape Units). The targets are presented in the following table (5).

**Table 5: Natural Disturbance Unit Early Patch Distribution Targets**

Natural Disturbance Unit	Early (<40 yrs) Patch Size Target (%) (acceptable range)		
	100+ ha	51-100 ha	<50 ha
Boreal Plains Uplands (BPU)	90 (65-90)	5 (5-15)	5 (5-15)
Boreal Foothills Valley (BV)	70 (55-85)	10 (5-15)	20 (15-25)
Boreal Foothills Mountain (BM)	70 (55-85)	10 (5-15)	20 (15-25)
Northern Boreal Mountains (NBM)	90 (65-90)	5 (5-15)	5 (5-15)
Omineca Mountains (OM)	70 (55-85)	10 (5-15)	20 (15-25)
Omineca Valley (OV)	90 (65-90)	5 (5-15)	5 (5-15)



A landscape-level analysis (based on NDUs) was conducted when FOS #3 was developed. Stand ages were projected through 2025, and all the newly proposed FOS blocks were assumed to be harvested by 2025. The results of the analyses are presented in the following table.

**Table 6: Early Patch Size Class Current Status & Post FOS Condition**

	2017 Current Early (<40 years) Patch Size Distribution							
Natural Disturbance Unit (NDU)	Small (<50ha)		Med. (50-100ha)		Large (>100ha)		Totals	
Boreal Foothills - Mountain	463	14%	257	8%	2522	78%	3244	
Boreal Foothills - Valley	371	16%	208	9%	1764	75%	2344	
Boreal Plains - Upland	20875	7%	22138	8%	248601	85%	291616	
Northern Boreal Mountains	187	21%	62	7%	647	72%	898	
Omineca - Mountains	44	9%	2	0%	426	90%	473	
Omineca - Valley	29	14%		0%	177	86%	206	
Total DFA (All NDUs)	21972		22669		254140			
Yellow = Below Target Range	Red = Above Target	Blue = No Harvesting Planned						
	2025 Current Early (<40 years) Patch Size Distribution							
Natural Disturbance Unit (NDU)	Small (<50ha)		Med. (50-100ha)		Large (>100ha)		Totals	
Boreal Foothills - Mountain	464	14%	296	9%	2506	77%	3268	
Boreal Foothills - Valley	250	12%	374	17%	1549	71%	2173	
Boreal Plains - Upland	19757	6%	21351	6%	311756	88%	352865	
Northern Boreal Mountains	47	100%		0%		0%	47	
Omineca - Mountains	43	9%	2	0%	426	91%	471	
Omineca - Valley	26	13%		0%	177	87%	203	
Total DFA (All NDUs)	20588		22024		316417			



Table 6 identifies the current patch size condition as well as the expected patch size condition in 2025. This analysis assumes that all blocks proposed in FOS# 3 will be harvested prior to the end of 2025 and that no new natural disturbance will create new young patch areas.

The 2017 current state indicates that 12 of 18 or 66% of NDU patch size combinations achieve the desired patch size distribution. This is an improvement over the FOS#2 projected condition where 8 of 18 or 44% of early patches were projected to meet the target ranges.

When early patches are analyzed based on the FOS condition (all blocks in FOS# 3 harvested by March 31, 2025), 8 of 18 or 44% of early patches meet the target ranges. However it must be noted that the harvesting planned in FOS# 3 is situated almost exclusively within the Boreal Plains Upland and Boreal Foothills Valley NDUs. A very minor amount of harvesting is proposed for the Boreal Foothills Mountain NDU, however the majority of young patch disturbance in this NDU is attributable to wildfire.

Harvesting is proposed by FOS# 3 in only 2 of the of the 10 NDU patch size combinations where the desired patch size distribution is not achieved in 2025. In 8 of these NDU patch size combinations where harvesting is not proposed and the target distribution is not achieved, it is expected that natural disturbance may alter the actual distribution achieved in 2025.

The foregoing indicates that FOS# 3 is consistent with the patch size indicator

The foregoing indicates that the participants are consistent with the patch size indicator. The analysis for this indicator will be conducted again when significant amendments to the Forest Operations Schedule are proposed (eg. Significant addition of proposed block area).

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions proposed to this indicator.

**3.4. SOIL DISTURBANCE<sup>5</sup>**

Indicator Statement	Target Statement
Number of blocks with non-conformances to soil disturbance limits reported annually by Managing Participant	Zero blocks will have non-conformances to soil disturbance limits.
<b>SFM Objective:</b> Protect soil resources to maintain productive forests.	
<b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the FSJPPR this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Soil Management Strategy.	

**Acceptable Variance:**

None

**CURRENT STATUS AND COMMENTS**

<sup>5</sup> New indicator in 2010 SFMP. Previous SFMP #1 indicator 6.4 was Shape Index, which has been deleted.



There were no incidents of detrimental soil disturbance reported by the Licensee participants during the 2017-2018 reporting period.

BCTS had no incidents of detrimental soil disturbance reported during the 2017-2018 reporting period.

The participants' activities are consistent with the target and acceptable variance for the soil disturbance indicator.

Target Achieved	
✓ Yes	No

**REVISIONS**

No revisions anticipated at this time.

**3.5. SNAGS/CAVITY SITES**

Indicator Statement	Target Statement
Number of snags and/or live trees (>23 cm dbh) per ha on prescribed areas	Retain annually an average of at least 6 snags and/or live trees (>23 cm dbh) per hectare on prescribed areas
<b>SFM Objective:</b> Suitable habitat elements for indicator species Maintain a natural range of variability in ecosystem function, composition, and structure which allows ecosystems to recover from disturbance and stress	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

Prescribed areas within blocks on which the SLP's were completed prior to April 1<sup>st</sup> 2010 will have a target of 6 snags and/or live trees greater than 23.0 cm dbh, consistent with the SFMP in effect at that time.

**CURRENT STATUS AND COMMENTS**

During the reporting period, Canfor completed harvesting on a total of 41 blocks.

All of the blocks had at least some area prescribed for snags or live tree retention. The retention level of snags and/or live tree residuals was measured on the 41 blocks.

Data for the blocks included in this report were collected during the harvesting phase and as part of final harvest inspections conducted during the reporting period.

The total prescribed area surveyed by licensee participants was 2901 ha, with 17,872 snags and/or live tree residuals retained. The actual retention level of snags or live trees in the blocks averaged 6.2 stems/ha.

During the reporting period, BCTS completed harvesting on a total of 22 blocks. Of these, twelve blocks had at least some area prescribed for snags or live tree retention. Data was collected from these 12 blocks post-harvest. BCTS had a total of 6580 stub trees out of a total





area of 1158.1 hectares. The retention level of snags or live trees in the blocks sampled averaged 5.7 stems/ha.

The participants have met the target for this indicator. The combined snag retention by both participants is 6.0 stems/ha. The following chart (Figure 2) is included to display the participants' performance relative to the targets for this indicator over the last ten reporting periods.

Figure 2 shows an example of a 'stub' tree created during harvesting operations, and residual live aspen. 'Stubs' are often created to act as surrogates for snags in managed stands to provide future vertical forest structure while managing forest worker safety, and make up the majority of vertical habitat elements tracked for this indicator.

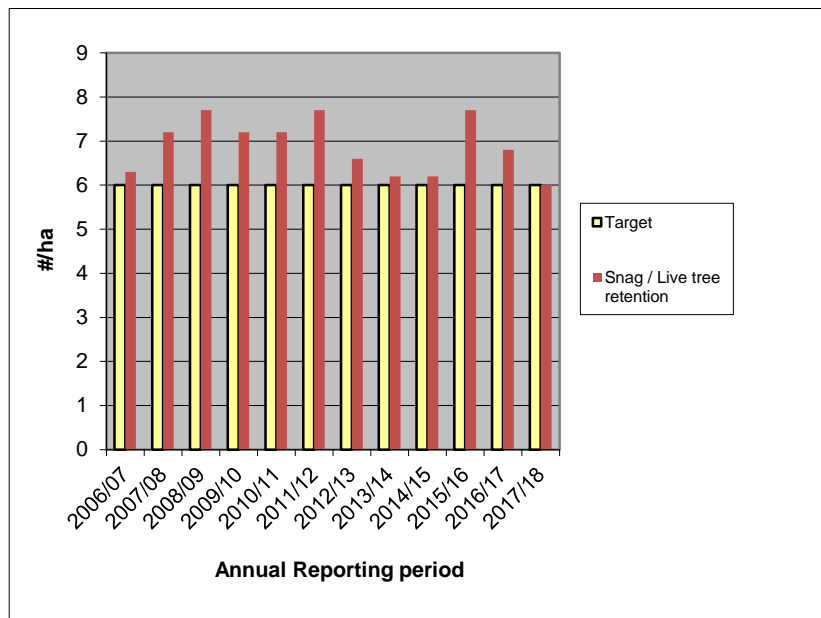


Figure 2. Ten year results for Snag/Cavity site indicator (2007-2018)



Figure 3: Example of 'stub' tree – block 117/005.

Figure 3 identifies a cavity in aspen stub colonized by Northern Flickers. Note live residual aspen in background, 15 years after block harvesting.

Target Achieved	
✓ Yes	No



## **REVISIONS**

There are no revisions planned for this indicator.

### **3.6. COARSE WOODY DEBRIS VOLUME**

Indicator Statement	Target Statement
Average retention level of Coarse Woody Debris volume/ (m <sup>3</sup> /ha) on blocks logged in the DFA between December 1, 2016 and November 30, 2022	Average retention level over the DFA will be at least 46 m <sup>3</sup> /ha (50% of average pre-harvest volume) on harvested blocks assessed between December 1, 2016 and November 30, 2022
<b>SFM Objective:</b> Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress Suitable habitat elements for indicator species	
<b>Linkage to FSJPPR:</b> For the purposes of Section 29(2) of the FSJPPR the applicable performance standard is specified by this indicator statement, target statement and acceptable variance. For the purposes of Section 42 of the FSJPPR this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Patch Size, Seral Stage and Adjacency Landscape Level Strategy	

#### **Acceptable Variance:**

CWD plots will not be assessed for the purposes of this indicator if they fall in blocks where management of non-timber resource values was identified as an overriding priority that was not compatible with CWD retention (e.g. community pastures, etc).

#### **CURRENT STATUS AND COMMENTS**

For the purposes of this indicator, coarse woody debris is measured along two 24m transects originating at predetermined points in harvested areas, following established provincial procedures. Figure 4 is included to provide an example of one such transect.

7 CWD plots were completed in September of 2017. Post-harvest CWD levels from these samples averaged 62.4m<sup>3</sup>/ha. There are 10 coarse woody debris plots scheduled for completion on blocks harvested in the current reporting period (2018).

The participants exceeded the minimum target for this indicator for the period of April 2017-March 2018 and the average retention targets for the period December 1, 2016 and November 30, 2022 calculated from available plot information is 62.4m<sup>3</sup>/ha.





Figure 4: Example of a coarse woody debris measurement transect (Block 01056)

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions proposed for this indicator.

**3.7. RIPARIAN RESERVES**

Indicator Statement	Target Statement
The number of non-compliances to riparian reserve zone standards	No non-compliances to riparian reserve zone standards
<b>SFM Objective:</b> Suitable habitat elements for indicator species Maintenance of water quality	
<b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the <i>FSJPPR</i> this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Riparian Management Landscape Level Strategy.	



For the purposes of Section 35(5), Section 28(1) (b)(i)(A) of the *FSJPPR* may be effected by the application of this Riparian Management Landscape Level Strategy, specifically the acceptable variance for this indicator.

**Acceptable Variance:**

No variances, unless authorized by the district manager.

**CURRENT STATUS AND COMMENTS**

A review of BCTS Compliance issues from April 1, 2017 to March 31, 2018 indicated that BCTS had no non-compliances to riparian reserve zone standards. BCTS achieved the target for this indicator.

A review of Canfor’s compliance issues occurring between April 1, 2017 and March 31, 2018 indicated no non-compliances to riparian reserve zone standards. The licensee participants achieved the target for this indicator.

The participants’ activities are consistent with the target and acceptable variance for the indicator.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no proposed revisions to this indicator or the target.

**3.8. SHRUBS**

Indicator Statement	Target Statement
The proportion of shrub habitat (%) by Landscape Unit	Each landscape unit will meet or exceed the baseline target (%) proportion of shrub habitat
<b>SFM Objective:</b> Suitable habitat elements for indicator species	
<b>Linkage to FSJPPR:</b> N/A	

**Acceptable Variance:**

Acceptable variance is ± 20% of the baseline target.

**CURRENT STATUS AND COMMENTS**

This indicator is monitored at each new SFMP, using the most up to date vegetation resource inventory data. The following table (table 7) shows the shrub condition projected through 2025, accounting for harvesting of all blocks presented in the FOS#3. The “2017 Shrub Area” includes shrub-type inventory polygons plus harvested areas <20yrs old.

Targets were established for this indicator by reviewing the amount of naturally occurring shrub areas by landscape unit, as well as forested areas less than 20 years old. Landscape units with low levels of naturally occurring shrubs generally have lower targets than areas with higher levels of shrubs. The targets reflect the same proportionate change as in the 2004 SFMP.

**Table 7: Shrub Habitat Current, FOS Condition and Targets**

LANDSCAPE UNIT	LU Net Area (ha)	2017 Shrub Area (ha)	2017 Shrub Area % of LU	Future Shrub Area (ha)	Future Shrub Area % of LU	Baseline Target
Blueberry	588,013	123,191	21%	95,089	16%	8%
Crying Girl	67,180	7,338	11%	4,349	7%	8%
Graham	334,884	58,170	17%	57,973	17%	15%
Halfway	196,226	28,996	15%	25,803	13%	6%
Kahntah	749,236	185,981	25%	184,568	25%	21%
Kobes	136,697	27,328	20%	23,475	17%	8%
Lower Beaton	154,954	20,622	13%	16,666	11%	7%
Milligan	454,005	75,996	17%	74,999	17%	13%
Sikanni	312,129	38,257	12%	38,257	12%	6%
Tommy Lakes	705,760	88,772	13%	77,247	11%	8%
Trutch	436,582	33,042	8%	31,860	7%	6%
<b>Grand Total</b>	<b>4,135,665</b>	<b>687,693</b>		<b>630,286</b>		

The future analysis of Change Monitoring Inventory (CMI) plots – after remeasurement - will permit comparisons of shrub composition and abundance over time. The total number of CMI plots established in the Pilot Project area to date is 151.

Table 7 shows that the participants have met or exceeded the baseline target in all LU's except Crying Girl but the % future shrub area % is within the approved variance.

The participants are consistent with the target for this indicator.

Target Achieved	
✓ Yes	No

### **REVISIONS**

There are no revisions planned for this indicator.



**3.9. WILDLIFE TREE PATCHES**

Indicator Statement	Target Statement	
Cumulative Wildlife Tree Patch percentage in blocks harvested under the <i>FSJPPR</i> in each Landscape Unit	Cumulative Wildlife Tree Patch % will meet or exceed the minimum target in each LU <sup>6</sup>	
	Landscape Unit	WTP %
	Blueberry	6%
	Halfway	3%
	Kahntah	7%
	Kobes	5%
	Lower Beaton	8%
	Milligan	6%
	Tommy Lakes	3%
	Trutch	5%
	Sikanni	4%
	Graham	4%
	Crying Girl	6%
	<p><b>SFM Objectives:</b>                      Suitable habitat elements for indicator species.                      Maintain a natural range of variability in ecosystem function, composition, and structure which allows ecosystems to recover from disturbance and stress.</p>	
<p><b>Linkage to FSJPPR:</b> For the purposes of 29(1) of the <i>FSJPPR</i> the applicable performance standard is specified by this indicator statement, target statement and acceptable variance.                      For the purposes of Section 42 of the <i>FSJPPR</i> this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Patch Size, Seral Stage and Adjacency Landscape Level Strategy</p>		

**Acceptable Variance:**

Aggregate WTP percentages will only apply if 200 hectares or more has been harvested under the *FSJPPR* in a landscape unit.

**CURRENT STATUS AND COMMENTS**

The following table indicates the amount of harvest area and proportion of Wildlife Tree Patches by each Landscape Unit where the harvest start date is between November 15, 2001 and March 31, 2017.

<sup>6</sup> Targets as per 2004-2005 Annual Report revisions





**Table 8: Harvest Area and Proportion of WTPs by Landscape Unit (2001-2017)**

LU	Gross Block Area (ha)	WTP Area (ha)	WTP %	Target %
Blueberry	55,181.5	3575.7	6.5%	6
Halfway	3,820.6	317.9	8.3%	3
Kahntah	1,280.4	118.0	9.2%	7
Kobes	11,198.5	767.9	6.9%	5
Lower Beatton	6,887.4	484.6	7.0%	<b>8</b>
Milligan	325.6	39.9	12.3%	6
Tommy Lakes	10,823.5	735.6	6.8%	3
Trutch	887.2	61.6	6.9%	5
Sikanni	0.0	0.0	n/a	4
Graham	234.2	31.9	13.6%	4
Crying Girl	1,718.4	143.3	8.3%	6
<b>Grand Total:</b>	<b>92357.3</b>	<b>6276.4</b>	<b>6.8%</b>	

No harvesting has taken place in the Sikanni LU since November 15, 2001.

The participants have met the target minimum WTP % for all Landscape Units where logging has occurred except in the Lower Beatton. In the winter of 16/17 salvage logging of burnt timber occurred in the Lower Beatton LU. Limited habitat elements were present in these blocks due to the severity of the burn and a focus on maximizing salvage opportunities, resulted in less WTP area retained in this LU. Minimizing overhead hazards in the burn salvage blocks was a safety consideration that also resulted in less WTP area retained. Because the target is cumulative, the this issue is still impacting the indicator results.

Target Achieved	
Yes	✓ No

**REVISIONS**

A revision to the target retention levels is noted in SFMP#3 and will be implemented in the 2018-19 reporting year.

**3.10. NOXIOUS WEED CONTENT AND INVASIVE PLANT CONTENT**

Indicator Statement	Target Statement
The % prohibited and primary noxious weeds, and known invasive weed species of concern, in seed mix analyses	Seed mix analyses will have 0% content of prohibited and primary noxious weeds, and known invasive weed species of concern, as identified in the most current publication of "Listing of Invasive Plants" available from the Peace River Regional District
<b>SFM Objective:</b> Suitable habitat elements for indicator species	
<b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the <i>FSJPPR</i> this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Range Management Landscape Level Strategy	





**Acceptable Variance:**

The primary objective of seeding is to control erosion to protect water resources, with a secondary objective to discourage the establishment of invasive weeds. In some isolated instances suitable seed mixes having appropriate government approved analysis may not be available in a timely manner. If seeding must urgently be done to control erosion, it may, in rare instances, be necessary to proceed without assurances of the seed source being free of noxious weeds. A maximum of one exception annually will be allowable to provide for this eventuality. In the event of an exception, the participant will subsequently inspect the seeded areas to assess weed concerns, and will develop and document appropriate action plans to eliminate prohibited and primary noxious weeds, in consultation with the appropriate government agencies.

**CURRENT STATUS AND COMMENTS**

For all broadcast seeding on road reclamation areas completed by the licensee participants during the April 1, 2017 – March 31, 2018 reporting period, the review of our seed analysis certificates verified that our seed mix has a 0% content of prohibited and primary noxious weeds, and known invasive weed species of concern, as identified in the Sustainable Forest Management Plan.

For all broadcast seeding on road reclamation areas completed by BCTS licensees during the April 1, 2017 – March 31, 2018 reporting period the review of seed tags and seed analysis certificates verified 0% content of prohibited and primary noxious weeds, and known invasive weed species of concern, as identified in the Sustainable Forest Management Plan.

The participants are in conformance to the target for this indicator.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no proposed revisions to the indicator or target statements.

**3.11. SPECIES AT RISK STAND LEVEL MANAGEMENT GUIDELINES**

Indicator Statement	Target Statement
The percentage of SLP's prepared annually for 'effected' cutblocks that incorporate one or more stand level species at risk management guidelines	100% of SLP's prepared annually for effected cutblocks will incorporate one or more stand level species at risk management guidelines
<b>SFM Objective:</b> Maintain habitats for species at risk	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

A 15% variance below the target will be acceptable. (i.e. 85% or more of SLP's in effected cutblocks must have one or more SLMG applied). The variance from 100% to 85% of effected SLPs would only be invoked in situations where forest health, worker or public safety, or operational concerns make implementation of the stand level management guidelines impracticable. In these situations a rationale detailing the reasons for not implementing stand level management guidelines will be included in the effected SLPs.



**CURRENT STATUS AND COMMENTS**

Between April 1, 2017 and March 31, 2018, 18 Site Level Plans (SLP's) were prepared by Canfor in cutblocks where Stand Level Management Guidelines for species and sites of management concern were required to be specified. One or more guidelines were applied in all 18 of these plans.

During the reporting period of April 1, 2017 and March 31, 2018, BCTS completed the development of Site Level Plans on 51 blocks where Stand Level Management Guidelines for species and sites of management concern were required to be specified. One or more guidelines were applied in all 51 of these Plans.

100 % of all Site Level Plans where Stand Level Management Guidelines were required incorporated at least 1 Guideline; therefore the participants achieved the target for this indicator.



**Figure 5: Typical habitat favoured by Connecticut Warbler (*Oporornis agilis*) in the Peace River Region**

(photo by A.Tyrrell)

**Target Achieved**



✓ Yes	No
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**REVISIONS**

There are no revisions planned for this indicator.

**3.12. FOREST WORKERS' SAFETY<sup>7</sup>**

Indicator Statement	Target Statement
Implementation and maintenance of certified safety program	Each managing Participant will implement and maintain a certified safety program
<b>SFM Objectives: Provide a safe work environment for DFA forestry workers and the public</b>	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

None

**CURRENT STATUS AND COMMENTS**

Currently the Managing Participants (B.C.T.S and Canfor) are certified to the B.C. Forest Safety Council S.A.F.E. Companies Standard. Surveillance audits are completed at regular intervals to ensure the managing participants safety programs continue to meet the S.A.F.E. Companies safety criteria, and to identify where there may be opportunities for improving the safety programs.

The Managing Participants each maintained their individual certifications to the B.C. Forest Safety Council S.A.F.E. Companies Standard during the 2017-18 reporting year.

The participants have achieved the target for this indicator.

Target Achieved	
✓ Yes	No

**REVISIONS**

No revisions are anticipated at this time.

<sup>7</sup> New indicator in SFMP #2. Indicator # 12 (Caribou) in previous SFMP #1 deleted due to impending implementation of WHA and UWR areas for boreal caribou.



### 3.13. SEED USE

Indicator Statement	Target Statement
The percentage of seedlings & vegetative material used and planted in accordance with the Chief Forester’s Standards for Seed Use (Nov.20, 2004), as amended from time to time. <sup>8</sup>	100% of seedlings and vegetative material will be used and planted in accordance with the Chief Forester’s Standards for Seed Use (Nov.20, 2004), as amended from time to time.
<b>SFM Objectives:</b> Conserve genetic diversity of tree stock Suitable habitat elements for indicator species	
<b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the <i>FSJPPR</i> this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Reforestation Landscape Level Strategy. For the purposes of Section 35(5) the indicator this indicator statement, target statement and acceptable variance will replace the requirements of Schedule F Section 99 (Seed Use).	

**Acceptable Variance:**

As per Section 8 Transfer Limits in the Chief Forester’s Standards for Seed Use, no less than 95% of the combined total of the number of seedlings and vegetative material planted during each fiscal year within the DFA will comply with the transfer requirements of section 8.2 through 8.7, of those standards. As the standards are amended from time to time, the allowable variance will change consistent with any amendments.

**CURRENT STATUS AND COMMENTS**

**BCTS**

1,893,321 seedlings were planted within the reporting period. All seedlings were planted in accordance with the standard.

**Licensee Participants (Canfor, Chetwynd Mechanical Pulp, CRL, Dunne-za, Louisiana-Pacific)**

4,690,545 seedlings were planted within the reporting period. All seedlings were planted in accordance with the standard.

**Combined**

The total number of seedlings planted was 6,583,866. Therefore 6,583,866 were planted in accordance with the standard

Target Achieved	
✓ Yes	No

**REVISIONS**

No revisions are anticipated at this time.

<sup>8</sup> Revisions to this indicator initially made in 2005/2006 Annual -Report





**3.14. ASPEN REGENERATION**

Indicator Statement	Target Statement
% Natural Regeneration of aspen	100% natural regeneration for deciduous.
<b>SFM Objectives:</b> Conserve genetic diversity of tree stock	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

A maximum of 10% of the area prescribed for deciduous regeneration may be restocked with deciduous vegetative propagules or seedlings (e.g. 90% minimum natural regeneration of deciduous) in accordance with the Chief Foresters Standards for Seed Use, as amended from time to time. In such cases, records must be kept of vegetative lots used and locations where vegetative lots are planted.

**CURRENT STATUS AND COMMENTS**

All Participants have relied on 100% natural regeneration for aspen stocking in the 2017-2018 reporting period.

Target Achieved	
✓ Yes	No

**REVISIONS**

No revisions are anticipated at this time.

**3.15. CLASS A PARKS, ECOLOGICAL RESERVES AND LRMP DESIGNATED PROTECTED AREAS**

Indicator Statement	Target Statement
Hectares of Forestry Related Harvesting or Road Construction within Class A parks, protected areas, ecological reserves and LRMP designated protected areas	Zero hectares of forestry related harvesting or road construction within Class A parks, protected areas, ecological reserves or LRMP designated protected areas
<b>SFM Objective:</b> To have representative areas of naturally occurring and important ecosystems, and rare physical environments protected at both the broad and site specific levels across or adjacent to the DFA	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

No variance, other than government direction requiring the forest industry to conduct operations in these areas.

**CURRENT STATUS AND COMMENTS**



No forestry related harvesting or road construction has occurred, nor was any harvesting planned in FOS#3, in Class A Parks, Ecological Reserves and LRMP Designated Protected Areas. The participants have achieved the target for this indicator.

Digital boundaries of all known protected areas were used in the development of the FOS#3 and to ensure proposed blocks or roads did not fall within any of the protected areas.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions planned for this indicator.

**3.16. UNGULATE WINTER RANGES, WILDLIFE HABITAT AREAS AND MKMA**

Indicator Statement	Target Statement
Proportion of activities consistent with objectives of the Muskwa-Kechika Management Area (MKMA) and general wildlife measures for Ungulate Winter Ranges (UWR) and Wildlife Habitat Areas (WHA)	All Pilot Participant activities will be consistent with the objectives of the MKMA and the general wildlife measures for Ungulate Winter Ranges and Wildlife Habitat Areas.
<b>SFM Objective:</b> To have representative areas of naturally occurring and important ecosystems, and rare physical environments protected at both the broad and site specific levels across or adjacent to the DFA	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

No variances unless authorized by the MOE.

**CURRENT STATUS AND COMMENTS**

There are currently 45 approved Wildlife Habitat Area’s (WHA’s), and 3 Ungulate Winter Ranges (UWR) wholly or partially within the Peace Forest District. General Wildlife Measures –the legal management regimes that dictate operational practices in these areas – have been developed and enacted by government. The participants will follow the General Wildlife Measures for each specific area when operations are proposed within these areas. For the reporting period, there were no activities conducted within approved WHAs or UWRs.

The WHA’s and UWR areas for Caribou (Boreal ecotype) in the north and eastern portions of the Timber Supply Area will be revised by the provincial government. The participants are honouring the boreal caribou WHA and UWR areas by applying the General Wildlife Measures in the UWRs and avoiding operational activities in the WHAs.

The Government of Canada (Canadian Wildlife Service) is coordinating a national recovery program for the boreal caribou, but it is not yet known what implications that holds for operations within the DFA, beyond the impacts of the provincial set-asides (WHA and UWR designations).

The following table summarizes harvest activities within grand parented blocks within the Muskwa-Kechika Management Area (MKMA) up to March 31, 2018.



**Table 9: Harvest Activities in the MKMA**

Licensee	Licence	Timber Mark	Block ID	Gross Area	Merch Area	Harvest Start Date	Harvest Completion Date	System
CANFOR	A18154	EK8335	20007	57.6	52.0	1/19/2005	2/14/2006	CCRES
CANFOR	A18154	EK8335	20008	101.4	88.7	1/19/2005	3/31/2006	CCRES
CANFOR	A18154	EK8335	20060	75.1	68.5	1/5/2005	3/4/2005	CCRES
<b>Total</b>				<b>234.1</b>	<b>209.2</b>			

The total cumulative area logged to date within blocks in the MKMA is 209.2 ha. All harvesting operations within the MKMA have been consistent with previously approved Forest Development Plans, as well as provisions within the MKMA Act that ‘grandparent’ previously approved blocks.

Harvesting within the MKMA that is proposed within the FOS #3 is currently limited to previously ‘grandparented’ blocks within the MKMA, and is therefore consistent with the objectives of the MKMA. There were no activities completed within the MKMA during this reporting period.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no proposed revisions to this indicator or target.

**3.17. REPRESENTATIVE EXAMPLES OF ECOSYSTEMS**

Indicator Statement	Target Statement
Percentage of area of forest stands in an unmanaged condition, by leading species, by NDU	100% of baseline targets for forested stands in an unmanaged condition, by leading species, by NDU will be met
<b>SFM Objective:</b> To have representative areas of naturally occurring and important ecosystems, and rare physical environments protected at both the broad and site-specific levels across or adjacent to the DFA	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

10 ha or 10% of area, whichever is greater for Leading Species by NDU that have an uncommon distribution (as noted in Table 23 of SFMP# 3) if required for access purposes.

No acceptable variance for Leading Species by NDU that are not identified as uncommon in Table 23 of SFMP# 3.

**CURRENT STATUS AND COMMENTS**



An assessment of the future condition of this indicator was completed to confirm consistency of FOS# 3 with SFMP #3. The targets specified in SFMP# 1 and SFMP# 2 for proportion of area in forest stands by leading species in an unmanaged condition were carried over to SFMP# 3 without any revision. The assessment of future condition for this indicator is presented in Table 10 and indicates the future status of forest stands by leading species and NDU for the Non-Timber Harvesting Land Base (NHLB). This reflects the stand types that will exist in an unmanaged state. FOS blocks have been identified within the portion of the land base that is considered as the timber harvesting land base.

Where harvesting is proposed, the SFMP requires an assessment of those NDU species combinations considered unique, highlighted in yellow in the following table, to ensure that targets are not compromised.

A re-analysis of this indicator is required after each Timber Supply Review (TSR) is completed. Data collection for the next TSR for the DFA commenced in the summer of 2013 and the TSR was released in May, 2018. If a significant amount of block area is added to the Forest Operations Schedule, through an amendment prior to the completion of the TSR, the analysis for this indicator will be redone to ensure ongoing conformance. The above would likely not be necessary for the Boreal Plains NDU due to the amount of area already in the NHLB.

Table 11 indicates the current status of forest stands by leading species and NDU for the Non-Timber Harvesting Land Base (NHLB). This reflects the stand types that exist in an unmanaged state. FOS blocks have been identified within the portion of the landbase that is considered as the timber harvesting landbase.

Where harvesting is proposed, the SFMP requires an assessment of those NDU species combinations highlighted in yellow in the following table to ensure that targets are not compromised by the harvesting.

**Table 10: Proportion of Leading Species by NDU Unmanaged Current State**

Natural Disturbance Unit	Sub NDU	Leading Species	Total Forested Area	Unmanaged Forests		
				Non-THLB	% Non-THLB	Baseline Target %
Boreal Plains Upland		AC	24921	15946	64%	12%
		AT	564457	294148	52%	12%
		BL	2154	1774	82%	12%
		EP	62327	51552	83%	12%
		LT	42067	41077	98%	12%
		PL	428736	229106	53%	12%
		SB	1344989	1216928	90%	12%
		SW	251908	150734	60%	12%
	SX	136623	55832	41%	12%	
Boreal Plains Upland Total			2858182	2057096	72%	
Boreal Foothills	Mountain	AC	104	93	90%	100%
		AT	2974	2431	82%	12%
		BL	14016	13422	96%	12%
		EP	30	26	86%	100%
		PL	20627	8933	43%	12%
		SB	1005	630	63%	12%





		SW	109942	73865	67%	12%
		SX	88	54	61%	12%
	Mountain Total		148785	99452	67%	
	Valley	AC	151	101	67%	80%
		AT	2837	2062	73%	12%
		BL	13	7	53%	0%
		EP	2	0	0%	100%
		PL	9766	3897	40%	12%
		SB	1699	1216	72%	12%
		SW	19930	9687	49%	12%
SX	31	17	53%	12%		
Valley Total		34429	16985	49%		
Northern Boreal Mountains	AC	203	175	86%	70%	
	AT	6893	5992	87%	12%	
	BL	11888	10801	91%	12%	
	PL	20005	13290	66%	12%	
	SB	2914	2431	83%	12%	
	SW	18688	15095	81%	12%	
	SX	121095	102284	84%	12%	
Northern Boreal Mountains Total		181687	150068	83%		
Omineca	Mountain	AC	2	2	100%	100%
		AT	528	469	89%	50%
		BL	17897	17513	98%	12%
		PL	5239	3501	67%	12%
		SB	271	236	87%	100%
	SW	61294	54155	88%	12%	
	Mountains Total		85230	75876	89%	
	Valley	AC	32	30	95%	100%
		AT	598	533	89%	50%
		BL	11	11	100%	100%
		PL	2700	1784	66%	12%
SB		351	307	88%	12%	
SW	6873	5165	75%	12%		
Valley Total		10565	7831	74%		
Grand Total		3,318,877	2,407,309	73%		

The majority of future proposed harvesting under FOS #3 is planned to occur in the Boreal Plains NDU. The analysis completed reports on the condition expected as of March 31, 2025 and assumes that all blocks presented in the FOS #3 will be harvested by that date. The results show that the majority of the baseline targets for retention of a representative sample of forest stands in an unmanaged condition are achieved in the NHLB. Several of the species / NDU combinations do not have sufficient area within the NHLB to meet the target. However in none of the cases is there any area identified for harvesting, and therefore a 'managed' designation does not apply.

**Table 11: Proportion of Leading Species by NDU Unmanaged Future State**

Natural Disturbance Unit	Sub NDU	Leading Species	Total Forested Area	Unmanaged Forests		
				Future Non THLB	Future % THLB	Baseline Target %



Boreal Plains Upland		AC	24921	15,946	64%	12%	
		AT	564457	294,147	52%	12%	
		BL	2154	1,774	82%	12%	
		EP	62327	51,552	83%	12%	
		LT	42067	41,077	98%	12%	
		PL	428736	229,095	53%	12%	
		SB	1344989	1,216,916	90%	12%	
		SW	251908	150,731	60%	12%	
		SX	136623	55,831	41%	12%	
Boreal Plains Upland Total			2858182	2,057,069	72%		
Boreal Foothills	Mountain	AC	104	93	90%	100%	
		AT	2974	2,431	82%	12%	
		BL	14016	13,422	96%	12%	
		EP	30	26	86%	100%	
		PL	20627	8,933	43%	12%	
		SB	1005	630	63%	12%	
		SW	109942	73,865	67%	12%	
		SX	88	54	61%	12%	
	Mountain Total			148785	99,452	67%	
	Valley	AC	151	101	67%	80%	
		AT	2837	2,062	73%	12%	
		BL	13	7	53%	0%	
		EP	2	0	2%	100%	
		PL	9766	3,897	40%	12%	
		SB	1699	1,216	72%	12%	
SW		19930	9,687	49%	12%		
SX	31	17	53%	12%			
Valley Total			34429	16,985	49%		
Northern Boreal Mountains		AC	203	175	86%	70%	
		AT	6893	5,992	87%	12%	
		BL	11888	10,801	91%	12%	
		PL	20005	13,290	66%	12%	
		SB	2914	2,431	83%	12%	
		SW	18688	15,095	81%	12%	
		SX	121095	102,284	84%	12%	
Northern Boreal Mountains Total			181687	150,068	83%		
Omineca	Mountain	AC	2	2	100%	100%	
		AT	528	469	89%	50%	
		BL	17897	17,513	98%	12%	
		PL	5239	3,501	67%	12%	



		SB	271	236	87%	12%
		SW	61294	54,155	88%	100%
	Mountains Total		85230	75,876	89%	
	Valley	AC	32	30	95%	100%
		AT	598	533	89%	50%
		BL	11	11	100%	100%
		PL	2700	1784	66%	12%
		SB	351	307	88%	12%
		SW	6873	5,165	75%	12%
	Valley Total		10565	7,831	74%	
Grand Total			3,318,877	2,407,281	72%	

The table indicates that 100% of the baseline targets for retention of a representative sample of forest stands in an unmanaged condition is achieved for all NDUs, including the ‘uncommon’ associations, either through the identified NHLB area or through avoidance of harvest planning. FOS # 3 does not compromise the performance to the baseline targets, and therefore FOS# 3 is consistent with this indicator.

Target Achieved	
✓ Yes	No

**REVISIONS**

Revision to the current status of this indicator will be considered in light of the TSR completed in 2018.

**3.18. GRAHAM HARVEST TIMING**

Indicator Statement	Target Statement
The number of clusters in the Graham IRM Plan area where active operational harvesting is concurrently occurring.	Operational harvesting within the Graham IRM Plan area will be constrained to no more than one ‘cluster’ of cutblocks at any one time.
<b>SFM Objective:</b> Provide opportunities for a feasible mix of timber, recreational activities and non-timber commercial activities Management strategies address important values in SMZ areas.	
<b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the <i>FSJPPR</i> this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy.	

**Acceptable Variance:**

Operational harvesting (i.e. falling and/or skidding of timber, *excluding predevelopment of road right of ways*) in more than one cluster at a time may occur concurrently, if required to address significant forest health concerns (e.g. Mountain Pine Beetle infestations, wildfire), with the authorization of the MFLNRORD.

**CURRENT STATUS AND COMMENTS**



No harvesting occurred in any part of the Graham IRM plan area during the 2017-18 reporting period covered by this Annual Report.

The Forest Operations Schedule Section 3.1, submitted to MFLNRORD in October 2017, identifies the blocks that still remain unharvested in the FOS in Graham clusters 5, 6 and 6a.

The Graham IRM Area harvest sequencing is also noted in Table 17 of the FOS. No harvesting is currently planned in the Graham IRM area. The harvest sequencing presented in the FOS is consistent with achieving the target for this indicator.

Target Achieved	
✓ Yes	No

**REVISIONS**

Revisions to this indicator will be considered over the next 1-2 years in light of the SFMP #3 approval letter.

**3.19. GRAHAM MERCH AREA HARVESTED**

Indicator Statement	Target Statement
Cumulative merchantable area (hectares) within blocks harvested within the Graham River IRM Plan area since 1997	The cumulative merchantable area (hectares) within harvested blocks will not exceed the planned maximum cumulative harvest areas as measured at the end of each time period. Period # 2 (ending April 2012): 6569 ha Period # 3 (ending April 2017): 9355 ha Period #4 (ending April 2022): 10,858 ha
<p><b>SFM Objective:</b> Provide opportunities for a feasible mix of timber, recreational activities and non-timber commercial activities Management strategies address important values in SMZ areas</p>	
<p><b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the <i>FSJPPR</i> this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy.</p>	

**Acceptable Variance:**

Operations may only exceed the target in the event of urgent forest health concerns that necessitate increased harvest rates, and after reviewing with the Public Advisory Group, and with the approval of the government.

**CURRENT STATUS AND COMMENTS**

No harvesting has taken place within the Graham River IRM Plan area during the annual reporting period of April 1, 2017-March 31, 2018.

Table 12: Graham River IRM Plan- Cluster Area and Timing Schedule (Revised Oct 2006)



<b>Definitions:</b>										
Total Area:		The total size of a Cluster including inoperable areas								
Gross Contributing Area:		The Contributing Area (base area) for FPC Biodiversity calculations								
IRM Net Harvest Area:		Estimated amount of Gross Operable area considered harvestable after IRM factors are taken into account								
Proposed Schedule:		General timing of harvest sequence over the course of the Plan								
<b>Maximum Cumulative Merch ha</b>		<b>The maximum cumulative merch hectares (all previous periods) allowed in cutblocks to period end (indicator)</b>								
Cluster #	Resource Management Zone	Total Area (ha)	Gross Contrib. Area (ha)	Est. Net Harvest Area (1) (ha)	Est. Proportion of Cluster Proposed for Harvest	Proposed Harvest Schedule Start-End		Harvest Period	# of Years	Maximum Cumulative Merch ha within blocks to be harvested
1	Graham-South	1,946	1,922	<b>706.0</b>	36.3%	June 1998	July 1999			
17	Graham-South	627	620	<b>294.0</b>	46.0%	Nov. 1999	April 2000			
2	Graham-South	2,208	2,085	<b>312.9</b>	14.2%	July 2000	April 2002			
3	Crying Girl	2,439	2,115	<b>620.5</b>	25.4%	Nov 2002	April 2003			
4	Graham-South	3,975	3,504	<b>976.6</b>	29.2%	<b>July 2003</b>	April 2007			
Sub-total		11,195	10,246	<b>2910.0</b>		1998	2007	Period 1	9	<b>3638</b>
5	Crying Girl	2,228	2,181	<b>748.6</b>	33.0%	<b>April 2007</b>	Nov. 2008			
6a	Graham-South	2,508	2,570	<b>1078.8</b>	35.0%	<b>Nov. 2008</b>	Nov. 2009			
6b	Graham-South	884	775	<b>257.5</b>	29.0%	<b>Nov. 2009</b>	April 2010			
6c	Graham-South	726	541	<b>260.0</b>	35.0%	<b>April 2010</b>	April 2012			
Sub-total		6,346	5,665	<b>2344.9</b>		2007	2012	Period 2	5	<b>6569</b>
7	Crying Girl	1,848	1,812	<b>577.2</b>	31.0%	<b>April 2012</b>	April 2013			
8a	Crying Girl	1,904	1,638	<b>840.0</b>	44.0%	<b>April 2013</b>	April 2014			
8b	Crying Girl	2,184	1,877	<b>812.3</b>	37.0%	<b>April 2013</b>	April 2017			
Sub-total		5,936	5,327	<b>2229.5</b>		2012	2017	Period 3	5	<b>9355</b>
9	Crying Girl	952	840	<b>291.0</b>	30.0%	<b>April 2017</b>	Nov. 2017			
10	Crying Girl	966	788	<b>317.0</b>	32.0%	<b>Nov. 2017</b>	April 2018			
11	Graham-South	1,768	1,717	<b>594.0</b>	33.0%	<b>April 2018</b>	April 2022			
Sub-total		3,686	3,345	<b>1202.0</b>		2017	2022	Period 4	5	<b>10858</b>
12	Graham-North	3,439	3,249	<b>1289.0</b>	37.0%	<b>April 2022</b>	April 2024			
13	Crying Girl	2,493	2,359	<b>745.0</b>	29.0%	<b>April 2024</b>	April 2027			
Sub-total		5,932	5,608	<b>2034.0</b>		2022	2027	Period 5	5	<b>13400</b>
14	Crying Girl	2,643	2,583	<b>1034.0</b>	39.0%	<b>April 2027</b>	April 2028			
15	Graham-North	3,258	2,666	<b>1072.0</b>	32.0%	<b>April 2028</b>	April 2032			
Sub-total		5,901	5,249	<b>2106.0</b>		2027	2032	Period 6	5	<b>16033</b>
16	Graham-North	2,108	1,917	<b>903.0</b>	42.0%	<b>Apr. 2032</b>	April 2035			
Sub-total		2,108	1,917	<b>903.0</b>		2032	2035	Period 7	3	<b>17162</b>
18	Graham-North	1,341	1,217	<b>468.0</b>	34.0%	<b>Nov. 2035</b>	Nov. 2037			
19	Graham-North	3,121	2,782	<b>1022.0</b>	32.0%	<b>Nov. 2037</b>	April 2040			
Sub-total		4,462	3,999	<b>1490.0</b>		2036	2040	Period 8	5	<b>19024.</b>
20	Crying Girl	1,317	1,188	<b>527.0</b>	40.0%	<b>Nov. 2041</b>	April 2045			
Sub-total		1,317	1,188	<b>527.0</b>		2042	2045	Period 9	5	<b>19683</b>
Totals (Cluster only)		46883	42946	<b>15746.4</b>				Period 1-9	47.0	<b>19683</b>
<b>D. Total Plan Area</b>		<b>198,140</b>	145,053	<b>15,746</b>	<b>8%</b>					<b>10%</b>

April 1, 2007 marked the completion of Harvest Period #1 for this indicator, which covers all logging in the Graham plan area from June of 1998 to April 2007. The Period 1 target was 2,910.4 ha, with a variance of an allowable maximum area harvested of 3,638 ha (including the SFMP# 1 allowable variance of 25% additional area). As noted in the 2009 annual report, the area harvested to the end of Harvest Period 1 was 3,515.6 ha, consistent with the acceptable range of area harvested for the first harvest period.

The second harvest period ended April 1, 2012, with a 6,569-hectare maximum cumulative harvest target. No harvesting occurred in the Graham during period 2. Therefore the total



cumulative area harvested to the end of Period 2 is 3,515.6 ha (Period 1) +0 ha (Period 2) = 3515.6 ha. This is well within the maximum cumulative harvest area target of 6,569 ha for Period 2. The Participants performance for Period 2 is in conformance with this indicator.

Period 3 ran until April 1 2017, with a maximum cumulative harvest area target of 9,355 ha. No harvesting has taken place in the Graham during Period #3. Therefore, the cumulative area harvest to the end of Period 3 is 3,515.6ha. This is well within the maximum cumulative harvested area target of 9,355ha and the Participants are in conformance to this indicator.

Period 4 runs until April 1, 2022, with a maximum cumulative harvest area target of 10,858ha. No harvesting has taken place within the Graham since the commencement of period 4 and the preparation of this report. Therefore, the cumulative area harvested is 3,515.6ha. This is well within the maximum cumulative harvested area target of 10,858ha and the Participants are in conformance to this indicator.



**Figure 6. Graham River operating area clustered harvest pattern, cluster 2.**

(photo by D. Menzies)

Target Achieved	
✓ Yes	No



**REVISIONS**

Additional monitoring period was identified in SFMP# 3 and is reflected in the target statement above. Revisions to this indicator will be considered over the next 1-2 years in light of the conditions in the SFMP #3 approval letter.

**3.20. GRAHAM CONNECTIVITY**

Indicator Statement	Target Statement
Area (hectares) harvested in cutblocks in the Graham IRM area, within the permanent alluvial and non-productive/non-commercial components of the connectivity corridors	Zero hectares harvested within cutblocks in the permanent alluvial and non-productive/non-commercial components of the connectivity corridors
<b>SFM Objective:</b> Ecosystem functions capable of supporting naturally occurring species exist within the range of natural variability Management strategies address important values in SMZ areas	
<b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the <i>FSJPPR</i> this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy.	

**Acceptable Variance:**

Variances may be allowed on a site-specific basis where government approval is attained. The indicator target excludes road rights-of-way needed to cross streams.

**CURRENT STATUS AND COMMENTS**

The Participants completed no harvesting within the recognized corridors during the time period covered by this report – April 1, 2017 – March 31, 2018.

Target Achieved	
✓ Yes	No

**REVISIONS**

Revisions to this indicator will be considered over the next 1-2 years in light of the SFMP #3 approval letter.

**3.21. MKMA HARVEST**

Indicator Statement	Target Statement
The number of long-term harvest plans within the MKMA completed and submitted to government	A minimum of one long-term harvest plan submitted no later than one year following government approval of a landscape unit objective under the MKMA Act, that applies to the Fort St. John TSA portion of the MKMA
<b>SFM Objective:</b>	





<p>Provide opportunities for a feasible mix of timber, recreational activities and non-timber commercial activities                  Management strategies address important values in SMZ areas</p>
<p><b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the <i>FSJPPR</i> this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy.</p>

**Acceptable Variance:**

Timing of submission may be delayed no more than one additional year.

**CURRENT STATUS AND COMMENTS**

No new clustered harvest plans have been prepared for the MKMA to date.

No new harvesting is proposed in the MKMA, other than that previously approved under grand fathering provisions of the Muskwa-Kechika Management Act and Regulation, for the duration of FOS# 2. Grandfathered Blocks in the MKMA left unharvested during FOS 2 were dropped from FOS #3 (submitted Oct 2017). There are no unharvested blocks in the MKMA remaining in the current FOS.

Initial planning for development of an MKMA harvest plan commenced in 2006, and continued in 2007. An area has been selected for plan development. However, Landscape Unit Objectives must be developed for the area by the government, with input from the participants. Progress towards the completion of this plan has been made, however the participants must wait for Landscape Unit Objectives to be approved by government before a plan can be finalized, submitted to government for review and endorsed. The SFMP3 approval letter dated May 4, 2018, suggested that a forestry objective be established in the MKMA. As a result of the lack of approval of Landscape Unit Objectives no new clustered harvest plans have been prepared for the MKMA to date.

Target Achieved	
✓ Yes	No

**REVISIONS**

Revisions to this indicator will be considered over the next 1-2 years in light of the SFMP #3 approval letter.

**3.22. RIVER CORRIDORS**

Indicator Statement	Target Statement
The percentage of harvested areas that create openings greater than 1 hectare within 100 metres of RRZ's in identified major river corridors	No openings exceeding 1 hectare in blocks within the major river corridors harvested under the <i>FSJPPR</i> (i.e. after November 15th, 2001)
<p><b>SFM Objective:</b>                  Management strategies address important values in SMZ areas</p>	
<p><b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the <i>FSJPPR</i> this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Riparian Management Landscape Level Strategy</p>	

**Acceptable Variance:**





10% of openings may exceed 1 hectare, but no openings greater than 2 hectares, except where required otherwise by a forest health treatment plan.

**CURRENT STATUS AND COMMENTS**

As part of the preparation of the Forest Operations Schedule #3, a digital spatial layer was used for those portions of streams identified in the Fort St. John LRMP in the Major River Corridor Resource Management Zone. The coverage assigned a 100-metre buffer to the riparian reserve zone stream classification, which was based on inventory information if known, or defaulted to S1 classifications if unknown. This coverage is displayed on all 1:50,000 maps where the Major River Corridor RMZ occurs. Any blocks not previously authorized and occurring within a major river corridor were either deleted or amended prior to inclusion in the FOS.

During the reporting period, no block harvest or road construction activities were conducted in major river corridors.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions planned for this indicator.

**3.23. TOTAL NUMBER OF CONTRACTS AWARDED TO FIRST NATIONS<sup>9</sup>**

Indicator Statement	Target Statement
Value and total number of Contracts awarded annually to First Nations.	Report the annual total value and number of contracts awarded to companies or groups owned or operated by First Nations.
<b>SFM Objective:</b> Provide opportunities for First Nations to participate in forest economy.	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

This is a reporting indicator so no variance is required.

**CURRENT STATUS AND COMMENTS**

During the reporting period, the licensee participants provided nineteen contracts to companies or groups owned, operated, or sponsored by First Nations. These contracts provided First Nations with the opportunity to be involved in the local forest industry and economy by conducting slash burning and brushing projects, harvesting and hauling of timber generated by the clearing of land for various projects including the BC Hydro Site C project and by operating the Peace Valley OSB log yard. These contracts totaled \$2,946,961.

During the 2017-2018 reporting period, BC Timber Sales did not have any contractual arrangements with First Nations.

Target Achieved

<sup>9</sup> New indicator in 2010 SFMP. Replaces old indicator # 23 'Visual Screening' which has been deleted



✓ Yes	No
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**REVISIONS**

No revisions are planned at this time for this indicator.

**3.24. PERMANENT ACCESS STRUCTURES**

Indicator Statement	Target Statement
Percentage of the total area in Managing Participants’ cutblocks occupied by permanent access structures in which harvesting was completed.	A maximum of 5% of the total area in Managing Participants’ cutblocks occupied by permanent access structures in which harvesting was completed, as determined on a 3 year rolling average.
<p><b>SFM Objective:</b> Sustain forest lands within our control within the Defined Forest Area Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress</p>	
<p><b>Linkage to FSJPPR:</b> For the purposes of Section 35(5) of the <i>FSJPPR</i>, this indicator statement, target statement and acceptable variance will replace Section 30(1) of the <i>FSJPPR</i>. For the purposes of Section 42 of the <i>FSJPPR</i> this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Access Management Landscape Level Strategy.</p>	

**Acceptable Variance:**

None.

**CURRENT STATUS AND COMMENTS**

The current 3-year average area in permanent access structures ending March 31, 2018 is presented in the following Table 13. The target for this period is a maximum of 5% of total area in permanent access structures. All participants’ permanent access structure values were consistent with the targets during the reporting period – Canfor 4.6%, and BCTS 3.2%



Table 13: Current 3-year Average in Permanent Access Structures (PAS)

Managing Participant	Annual Reporting Period (Ending Mar. 31st of Year Indicated)	PAS Area (ha)	Total Area (ha)	% PAS of Total Area
Canfor	2016	279.8	6261.7	4.47%
Canfor	2017	239.1	5509.8	4.34%
Canfor	2018	225.3	4871.7	4.62%
<b>Canfor Total:<sup>10</sup></b>		<b>744.2</b>	<b>16643.2</b>	<b>4.47%</b>
BCTS	2016	139.7	4919.0	2.8%
BCTS	2017	150.1	5243.9	3.1%
BCTS	2018	150.3	5204.1	3.2%
<b>BCTS Total:<sup>11</sup></b>		<b>440.1</b>	<b>15367.0</b>	<b>3.0%</b>
<b>Combined Participants Totals:</b>		<b>1,184.3</b>	<b>32,010.2</b>	<b>3.70%</b>

Both managing participants are in conformance with the target for this indicator.

The following graph (Figure 7) shows the participants' performance relative to the Permanent Access Structure indicator over the last 3 reporting periods.

### % PAS by Managing Participant

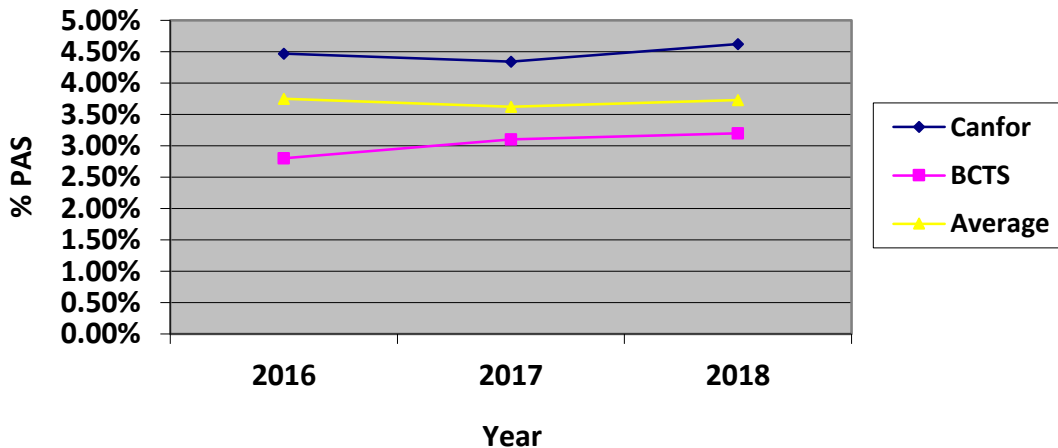


Figure 7: Three year reporting results of 3-year rolling averages of PAS % (2016-2018)

Target Achieved	
✓ Yes	No

### REVISIONS

There are no revisions proposed for this indicator and target.

<sup>10</sup> based on 10 metre wide road widths

<sup>11</sup> based on 6 metre wide road widths



**3.25. FOREST HEALTH**

Indicator Statement	Target Statement
Percentage of silviculture obligation areas with significant detected forest health damaging agents which have treatment plans developed for them. <sup>12</sup>	100% of silviculture obligation areas with significant forest health damaging agents will have treatment plans developed for them, and initiated within 1 year of detection.
<p><b>SFM Objective:</b>                      Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress                      Ecosystem functions capable of supporting naturally occurring species continue to exist within the DFA                      Maintain or enhance landscape level productivity</p>	
<p><b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the FSJPPR this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Forest Health Landscape Level Strategy.</p>	

**Acceptable Variance:**

A variance of 1 additional year for completing the treatment plan is permissible to provide time for additional information collection and consultation with forest health specialists.

**CURRENT STATUS AND COMMENTS**

**BCTS**

BCTS fill planted 65.2 ha over five openings during the reporting period of April 1, 2017 to March 31, 2018. Prior year silviculture surveys conducted on these openings identified the need for fill planting. The causes were primarily due to heavy grass competition that led to mortality in plantations of conifer and decreased natural regeneration of deciduous. Some of these stands may be managed as mixedwood going forward while some will continue on a conifer management objective.

From the silviculture surveys conducted during the reporting period on BCTS obligation areas, there were minor incidences of forest health damage such as western gall rust, Surveys have indicated that grass has been inhibiting the reestablishment of aspen in isolated pockets in some deciduous stands. Ungulate browsing continues to be a problem particularly in some of the smaller deciduous blocks. Animal damage, particularly from hare browse has become prevalent on some of the younger pine plantations.

None of the forest damages identified were considered at levels significant enough to warrant development of a treatment plan however.

The efficacy of the BCTS 2017 aerial herbicide spray program was determined to be good, particularly in comparison to the 2016 results.

**Licensee Participants (Canfor, MPMC, CRI, Dunne-za, Louisiana-Pacific, PVOSB)**

<sup>12</sup> Indicator changed in 2010 SFMP to apply to silviculture obligation areas



Licensee participants fill planted 183 ha of obligation area over 8 different openings during the reporting period of April 1, 2017 through March 31, 2018. The need for fill planting on these sites was identified during surveys, and the cause was attributed to competition from grass, as well as fill-planting deciduous blocks where the aspen were not regenerating in sufficient quantities.

Surveys conducted on obligation areas during the reporting period identified minor incidences Aspen twig blight, frost, and animal browse. None of the forest damages identified were considered at levels significant enough to warrant development of a treatment plan however.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions planned for this indicator.

**3.26. SALVAGE**

Indicator Statement	Target Statement
The relative proportion of area of merchantable fire-damaged stands salvaged within a management intensity class <sup>13</sup>	The relative proportions of salvage hectares will be highest in the high intensity zones <sup>14</sup> , and lowest in the low intensity zones over an SFMP period (April 1, 2016 - March 31, 2022)
<b>SFM Objective:</b> A natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

None.

**CURRENT STATUS AND COMMENTS**

During the summer of 2017, 3 forest fires burned a combined area of 11.3 ha within the DFA. These fires occurred in low Management Intensity Zones. Due to the size of the individual fires and the limited amount of merch timber impacted by the fires, salvage was not pursued.

<sup>13</sup> Modified in 2010 from SFMP # 1 to include only fire damaged stands  
<sup>14</sup> See section 1.3.1 for description of LU's in high and low management intensities



Table 14: Area Damaged / Salvaged in Merchantable Timber 2017-2018

MANAGEMENT INTENSITY EMPHASIS	HIGH			MODERATE			LOW			ALL		
	Total Area burned (ha)	Merch* Timber Damage (ha)	Merch Timber Salvaged (ha)	Total Area burned (ha)	Merch* Timber Damage (ha)	Merch Timber Salvaged (ha)	Total Area burned (ha)	Merch* Timber Damage (ha)	Merch Timber Salvaged (ha)	Total Merch* Timber Damage (ha)	Total Area Salvaged	Total Area Damaged (ha)
2017	0	0	0	0	0	0	11.3	0	0	0	0	11.3
<b>SFMP Totals</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11.3</b>

\*Based on VRI from LRDW on stands with a total estimated volume of >= 140m<sup>3</sup>/ha and occurring on the Crown Forest Landbase (CFLB).

For the 2017-18 reporting period, 0% was salvage harvested. The participants are consistent with the target for this indicator.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions proposed for the indicator and target

**3.27. SILVICULTURE SYSTEMS**

Indicator Statement	Target Statement
Percentage of area harvested annually using even aged silvicultural systems	Even aged silvicultural systems will be employed on at least 80% of the total area harvested annually in the DFA
<b>SFM Objective:</b> A natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

No acceptable variance.



**CURRENT STATUS AND COMMENTS**

The following table summarizes the silviculture system (merchantable hectares) on blocks harvested between April 1, 2017 and March 31, 2018.

**Table 15:** Silviculture System Summary by area

Managing Participant	Even-aged (ha)	Uneven-aged (ha)	Total (ha)
Licensee Participants	4505.8	0	4505.8
BCTS	1280.1	0	1280.1
<b>Total</b>	<b>5785.9</b>	<b>0</b>	<b>5785.9</b>

Even-aged silviculture systems were employed on 100% of the total area harvested by participants within the DFA during the reporting period, which is consistent with the target for this indicator.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no proposed changes to the indicator or the target.

**3.28. SPECIES COMPOSITION**

Indicator Statement	Target Statement
Relative Change in Plantation Composition versus Harvest Composition for Spruce and Pine	The relative proportion of spruce and pine planted annually will equal the proportions harvested annually (excluding fill planting)
<b>SFM Objectives:</b> Maintain the diversity and pattern of communities and ecosystems within a natural range Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress	
<b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the FSJPPR this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Reforestation Landscape Level Strategy.	

**Acceptable Variance:**

An annual variance of plus or minus 20% absolute difference between the planted Pine/Spruce percentages and cruise Pine/Spruce percentage estimates is allowed to reflect potential annual harvest composition fluctuations, site treatment impacts, annual seedling delivery fluctuations (i.e. nursery production shortfalls/overruns), and to allow site level decisions to be signed off by Professional Foresters for variances (e.g. to address potential forest health concerns such as areas highly susceptible to rusts, insects, etc.)<sup>15</sup>

**CURRENT STATUS AND COMMENTS**

The following table summarizes the blocks planted between April 1, 2017 and March 31, 2018 and the corresponding cruise species percentages by licensee:

<sup>15</sup> The original variance was amended in the 2006-2007 Annual Report- clarified that the assessment is based on cruised volumes vs seedlings planted



**Table 16: Planting vs. cruise species comparison**

2017 Planting Summary			
Division	Data	Total	Percentages
<b>BCTS</b>	Sum of Cruise Spruce (m3)	198,397	43.23%
	Sum of Cruise Pine (m3)	151,082	56.77%
	Sum of Planted Spruce (trees)	1,053,256	55.6%
	Sum of Planted Pine (trees)	840,065	44.4%
	<b>Licensee Participants</b>	Sum of Cruise Spruce (m3)	631272
	Sum of Cruise Pine (m3)	316035	33.4%
	Sum of Planted Spruce (trees)	3067665	65.4%
	Sum of Planted Pine (trees)	1622880	34.6%
<b>Combined Totals</b>			
Total Sum of Cruise Spruce (m3)		829669	63.9
Total Sum of Cruise Pine (m3)		467117	36.1
Total Sum of Planted Spruce (trees)		4120921	62.6
Total Sum of Planted Pine (trees)		2462945	37.4

As indicated above the blocks planted in 2017 contained 63.9% spruce volume in the cruise and were planted with 62.6% spruce. These blocks contained 36.1% pine volume in the cruise and were planted with 37.4% pine. The planted species percentages are within 20% of the cruise species percentages and therefore the participants are within the acceptable variance for this indicator and target.

Target Achieved	
✓ <b>Yes</b>	<b>No</b>

**REVISIONS**

There are no proposed revisions to this indicator or the target.

**3.29. REFORESTATION ASSESSMENT**

Indicator Statement	Target Statement
Predicted Merchantable Volume (PMV) (cubic meters) coniferous and separate deciduous surveyed areas.	Predicted Merchantable Volume will meet or exceed the Target Merchantable Volume (TMV). The TMV is set at 95% of the Maximum Predicted Merchantable Volume attainable on coniferous areas.





	The TMV is set at 90% of the Maximum Predicted Merchantable Volume attainable on deciduous areas.
<p><b>SFM Objectives:</b>                  A natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress                  Maintenance of the processes for carbon uptake and storage</p>	
<p><b>Linkage to FSJPPR:</b> For the purposes of Section 35(5) of the FSJPPR this indicator statement, target statement and acceptable variance will be used in replacement of the portions of affected Section 32 of the FSJPPR through the application of the landscape level strategy for coniferous areas logged after November 15, 2001. This will also apply to coniferous area in cutblocks with commencement dates before November 15, 2001 if the participant currently carries reforestation liability and has submitted a statement to the district manager that the cutblock(s) will be subject to the SFMP under Section 42 of the FSJPPR. Please refer to sec 8.1.3 of this SFMP.</p> <p>For the purposes of Section 42 of the FSJPPR this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies for coniferous areas.</p>	

**Acceptable Variance:**

A variance of 5% below the Target Merchantable Volume will be acceptable (i.e. 90% of the Maximum Predicted Merchantable Volume for coniferous areas, and 85% of the Maximum Predicted Merchantable Volume for deciduous areas). The variance accounts for the complexity of ecosystems and silviculture regimes combined with the long time frames and variety of influences on reforestation outcomes.

If the conifer target population’s Predicted Merchantable Volume is less than the Target Merchantable Volume, individual cutblocks will be required to meet a minimum cutblock Mean Stocked Quadrant (MSQ) value of 2.0 well growing crop trees, for a target stocking of 1200 stems/ha or greater. For a target stocking of 1000 stems/ha and 800 stems/ha the minimum cutblock MSQ values will be 1.7 and 1.3 respectively. If the cutblock has areas of different target stocking the MSQ will be prorated by area.

Damage events beyond the control or influence of the Participants (e.g. wildfire) will result in the block being deleted from the assessment population, and assessed as noted in the Strategy and Implementation section.

The deciduous compiler has been developed. MSQ reports for deciduous are now included in this section.

Situations may arise in which despite due diligence in prescribing and implementing the silviculture regimes the Participant has not met the target. Where further treatment options are limited, the District Manager may waive a requirement for further treatment.

**CURRENT STATUS AND COMMENTS**

Tables corresponding to the results presented below can be found in Appendix 5-Reforestation.

**BCTS**

A total of twelve BCTS blocks were surveyed from the 2002/2003 harvest year. These twelve blocks are managed using coniferous stocking standards. This accounted for a sample size of 464.2 ha. The field data collected in July and August was compiled over the winter using a compiler developed by Timberline Natural Resource Group. The 464.2 ha were broken down into



eight different strata based on species composition, site index, stocking class and target stocking standard. For each stratum a target merchantable volume (TMV) was determined based on TASS models. Using the inputs of mean stocked quadrant (MSQ), mean effective age and site index, a predicted merchantable volume (PMV) was then calculated for each stratum. The PMV for the 2002/2003 harvest year for coniferous managed stands was 253,205 m<sup>3</sup> and the TMV was 249,121 m<sup>3</sup>. **This put the PMV at 101.6 % of the TMV, which means that the target has been achieved.**

In addition to the above, a total of fourteen BCTS blocks were surveyed from the 2007/2008 harvest year using deciduous stocking standards. This accounted for a sample site of 716.6 ha. The field data was collected in the summer and compiled using a deciduous compiler developed by Craig Farnden Forestry Consulting. This sample represents two strata based on species composition, site index, stocking class and target stocking standard. The target merchantable volume (TMV) was determined based on TASS models. Using the inputs of mean stocked quadrant (MSQ), mean effective age and site index, a predicted merchantable volume (PMV) was then calculated. The PMV for the 2007/2008 harvest year for deciduous managed stands was 320,402 m<sup>3</sup> and the TMV was 288,242 m<sup>3</sup>. **This put the PMV at 111.2% of the TMV, which means the target has been achieved.**

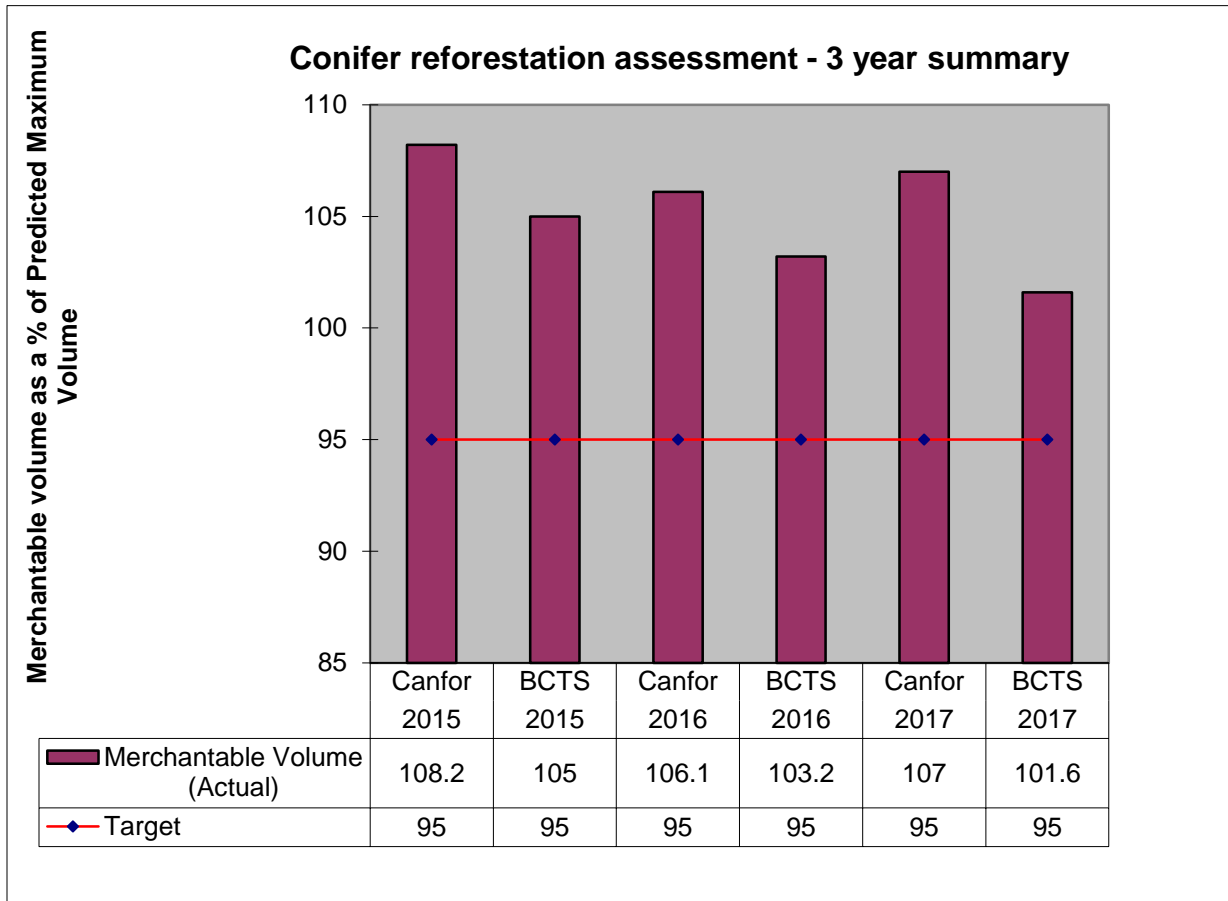
### **Licensee Participants**

A total of 97 blocks were surveyed from the 2002/2003 harvest year, accounting for a sample size of 3634.3 ha. This includes the three blocks that were excluded from the 2016 population (120004, 120005, and 10001). The field data collected between August and October of 2017 were compiled over the winter using a compiler developed by J.S. Thrower and Associates. The 3634.3 ha were grouped into 30 different strata based on species composition, site index, stocking class, and target stocking standard. For each stratum a target merchantable volume (TMV) was determined based on TASS models. Using inputs of mean stocked quadrant (MSQ), mean effective age and site index, a predicted merchantable volume (PMV) was then calculated for each stratum. The PMV for the 2002/2003 harvest year was 2,017,957 m<sup>3</sup>, and the TMV was 1,885,689 m<sup>3</sup>. **This put the PMV at 107.0% of the TMV, which means the target was met.**

In addition to the above, a total of 36 Canfor blocks were surveyed from the 2007/2008 harvest year using deciduous stocking standards. This accounted for a sample size of 1959.7 ha and included many blocks which were impacted by fire disturbances. The field data was collected in the summer and compiled using a deciduous compiler developed by Craig Farnden Forestry Consulting. This sample represents two strata based on species composition, site index, stocking class, and target stocking standards. The target merchantable volume (TMV) was determined based on TASS models. Using the inputs of mean stocked quadrant (MSQ), mean effective area and site index, a predicted merchantable volume (PMV) was then calculated. The PMV for the 2007/2008 harvest year for deciduous managed stands was 639,688 m<sup>3</sup> and the TMV was 587,745 m<sup>3</sup>. **This put the PMV at 108.8% of the TMV, which means the target has been achieved.**



The following figure shows a 3-year summary for this indicator:



**Figure 8: Conifer reforestation assessment merchantable volume prediction**

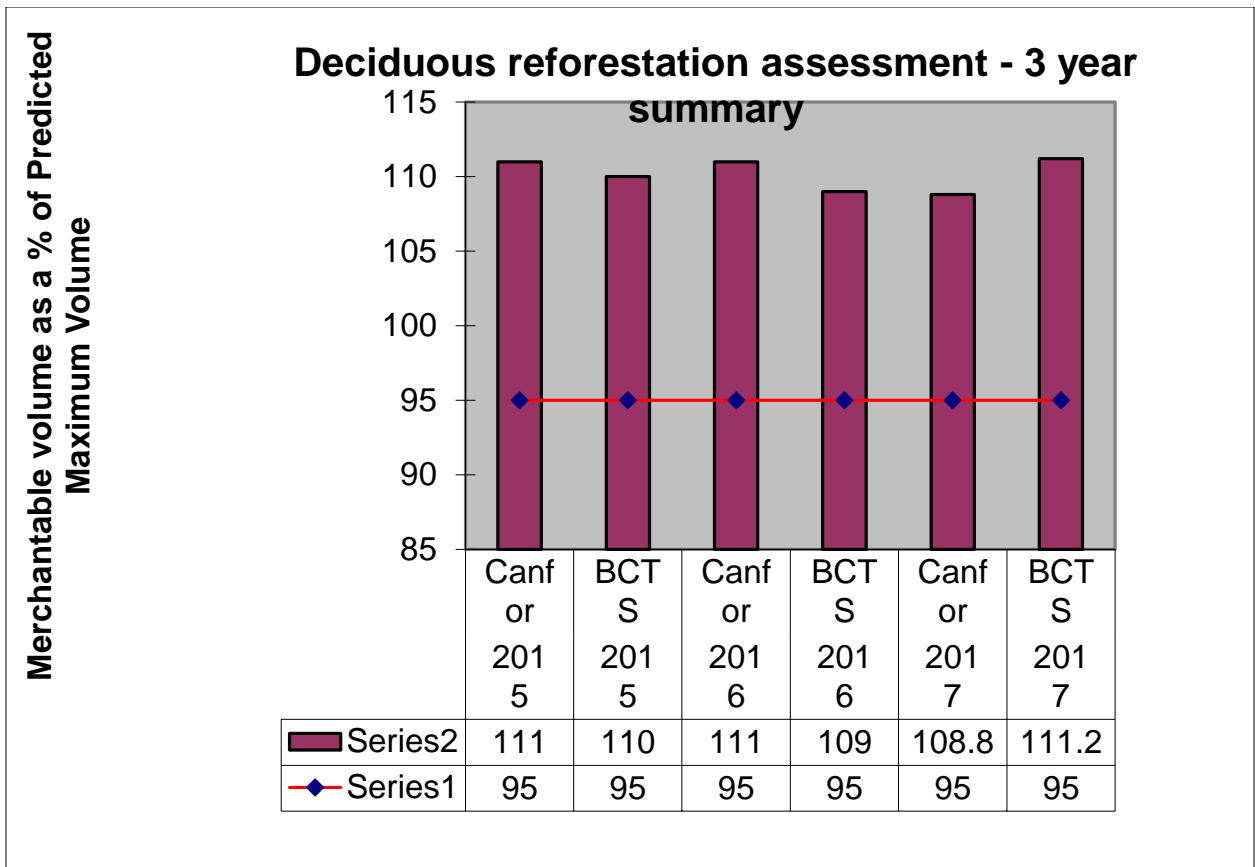


Figure 9: Deciduous reforestation assessment merchantable volume prediction

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no proposed revisions to this indicator.



**3.30. ESTABLISHMENT DELAY**

Indicator Statement	Target Statement
Establishment Delay (years)	The area weighted average establishment delay for coniferous regeneration will not exceed two years The area weighted average establishment delay for deciduous regeneration will not exceed three years The area weighted average establishment delay for mixedwood stands regeneration will not exceed three years.
<b>SFM Objectives:</b> Maintain the diversity and pattern of communities and ecosystems within a natural range Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress Maintenance of the processes for carbon uptake and storage	
<b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the FSJPPR this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Reforestation Landscape Level Strategy.	

**Acceptable Variance:**

To allow for variations in site preparation requirements, access, and delays in harvest the acceptable variance for establishment delay is an additional one half year (e.g. 2.5 years for conifer, 3.5 years for deciduous and mixedwood).

**CURRENT STATUS AND COMMENTS**

**Coniferous Regeneration:**

BCTS coniferous establishment delay was 1.1 years, which is within the acceptable performance range for coniferous establishment timelines for this indicator. Canfor coniferous establishment delay was 0.9 years, which is within the acceptable performance range for coniferous establishment timelines for this indicator.

**Deciduous Regeneration:**

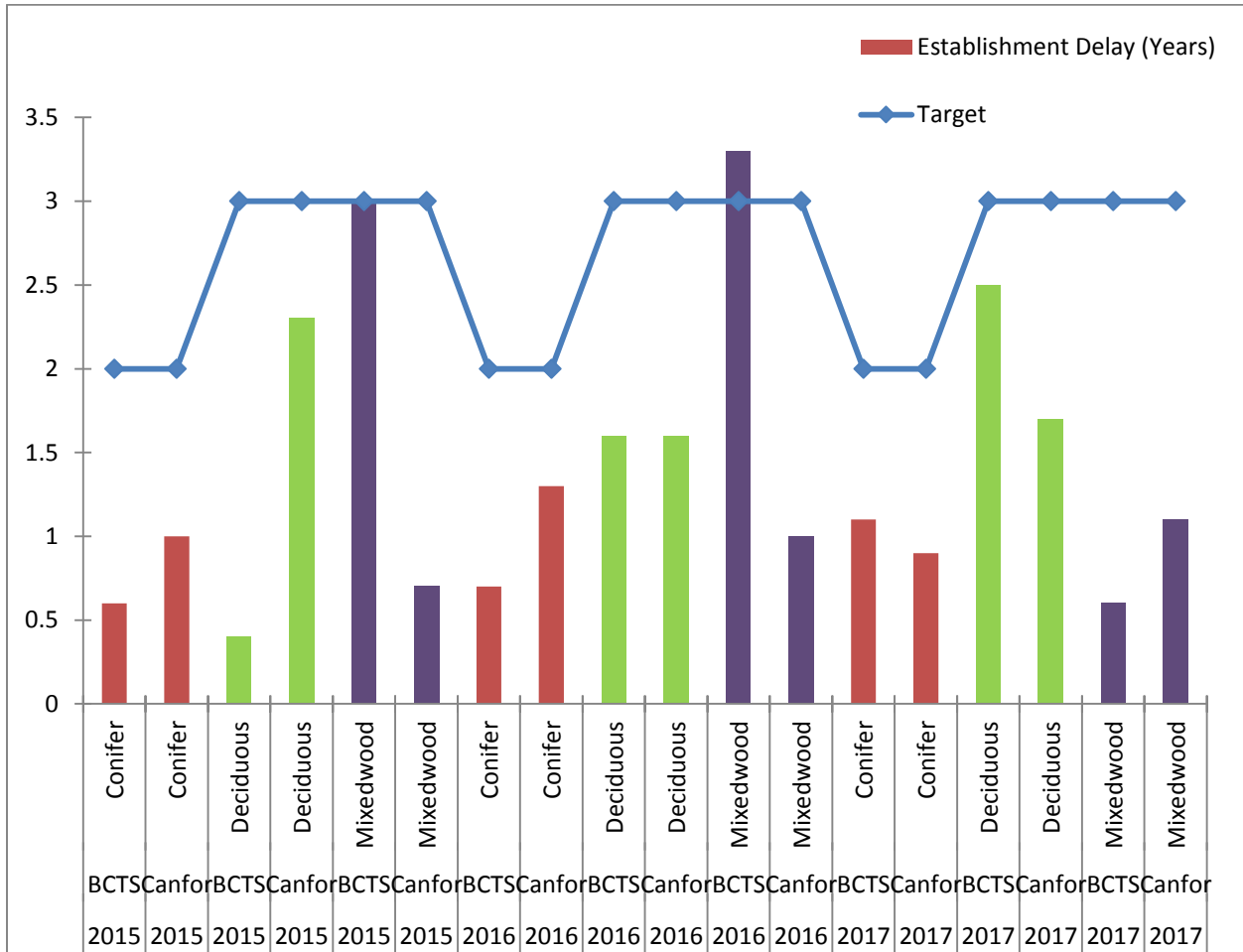
The BCTS deciduous establishment delay was 2.5 years, which is within the acceptable performance range for deciduous establishment timelines for this indicator. The Canfor deciduous establishment delay was 1.7 years, which is within the acceptable performance range for deciduous establishment timelines for this indicator.

**Mixedwood Regeneration**

The BCTS mixedwood establishment delay was 0.6 years, which is within the acceptable performance range for mixedwood establishment timelines for this indicator. However, the variance of 0.5 years is permissible in this situation. The Canfor mixedwood establishment delay was 1.1 years, which is within the acceptable performance range for mixedwood establishment timelines for this indicator.

Refer to the tables found in Appendix 5- Reforestation, for a detailed listing of how this establishment delay value was calculated.

The Figure below shows a 3-year summary for the indicator:



**Figure 10: Establishment delay 3-year summary**

The participants achieved all 3 targets associated with this indicator.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no proposed revisions to the indicator statement or target.



### 3.31. LONG TERM HARVEST LEVEL

Indicator Statement	Target Statement
Long-term harvest level (LTHL) as measured in cubic metres per year (m <sup>3</sup> /yr)	We will propose an Allowable Annual Cut (AAC) that sustains the LTHL of the Defined Forest Area (DFA)
<b>SFM Objective:</b> Maintain or enhance landscape level productivity No decrease in the LTHL in the DFA	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

At the time of SFMP #1 government policy direction was to have Timber Supply Reviews (TSR's) prepared by industry for the Chief Forester's consideration, and determination of the AAC. This policy has changed, government is now preparing TSR's with input from the public and stakeholder. Forest industry participation in the TSR process is now limited to providing information and feedback.

Although the Participants may propose information to be considered in the calculation of a sustainable long-term harvest level, the responsibility and authority to determine an AAC however, rests with the MFLNRORD. Ultimately, it is the MFLNRORD Chief Forester who determines the AAC for the management unit.

**CURRENT STATUS AND COMMENTS**

Work on the current TSR commenced in the summer of 2013. The TSR analysis results document was released in early 2016. The Participants provided information for consideration by the MFLNRORD in the preparation of the data package and the review of the analysis report, which supports the TSR AAC determination. In May 2018, MFLNRORD released the updated AAC. The Chief Forester set the AAC at 2,115,000m<sup>3</sup>, which is the same AAC that was released in 2003.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no proposed revisions to the indicator statement or target.

### 3.32. SITE INDEX

Indicator Statement	Target Statement
Site index	Average post harvest site index will not be less than average pre-harvest site index on blocks harvested under the pilot project regulation
<b>SFM Objective:</b> Maintain or enhance landscape level productivity Protect soil resources to sustain productive forests	
Linkage to FSJPPR: N/A	



**Acceptable Variance:**

A maximum negative variance of 15% post harvest site index *versus* pre harvest site index is allowed to account for statistical variability.

**CURRENT STATUS AND COMMENTS**

The majority of SPs/SLPs for blocks harvested since Nov. 15, 2001 have been updated to include pre-harvest site index, so that the data will be readily available when well-growing assessments are made to them in the future. Blocks for which licensees developed SLP's during the reporting period have Site Index identified for each Standard Unit.

This indicator applies to blocks harvested since Nov. 15, 2001 that have undergone completion of a well growing assessment as per the required well growing assessment schedule. This is the second reporting season where a population of cutblocks have met the conditions required for inclusion. Multiple blocks, however, were removed from the population due to recent wildfire.

**Licensee Participants**

The average pre-harvest site index was 15.0, whereas the average post-harvest site index was determined to be 19.5.

**BCTS**

The average pre-harvest site index was 17.4, whereas the average post-harvest site index was determined to be 20.9.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no proposed revisions to this indicator or the target.

**3.33. FIRST NATIONS CONSULTATION & INFORMATION SHARING<sup>16</sup>**

Indicator Statement	Target Statement
Percentage of affected First Nations invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's)	100% of affected First Nations will be invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's).
<b>SFM Objective:</b> Involve First Nations in review of forest management plans, provide understanding of forest management plans	
<b>Linkage to FSJPPR:</b> N/A	

<sup>16</sup> New indicator in 2010 SFMP- previous SFMP#1 Indicator # 33 was Landslides, which has been deleted





**Acceptable Variance:**

No acceptable variance.

**CURRENT STATUS AND COMMENTS**

During the 2017-2018 reporting period there was 1 major FOS amendment (#324) that was prepared jointly by Canfor and BCTS. Information sharing related to the major FOS amendment was conducted with the affected Treaty 8 First Nations and other affected First Nations with identified interest in the FSJ TSA. The identification of the “affected” First Nations was based on the geographic location of the proposed amendment areas and was guided by the First Nations Relations Advisor from MFLNRORD. FOS amendment packages including maps and letters were provided to each affected First Nation for each major amendment and appropriate follow-up meetings and discussions were held as requested.

In addition to this, Canfor Silviculture staff conducted info sharing with all First Nations where brushing activities were proposed to occur. Through the Notice of Intent to Treat process, First Nations were provided with information and proposed treatment areas in an initial package, followed by many subsequent communications and/or contact attempts.

All Treaty 8 First Nations were invited to the Public Advisory Group meeting that occurred during the reporting period.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions planned for this indicator statement or target.

**3.34. PEAK FLOW INDEX**

Indicator Statement	Target Statement
The percentage of watersheds achieving baseline targets for the peak flow index and the percent of watershed reviews completed where the baseline target is exceeded	95% or more of the watersheds will be below the baseline target All watersheds that exceed the baseline target will have a watershed review completed wherever new harvesting is planned
<b>SFM Objective:</b> Maintenance of water quantity	
<b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the FSJPPR this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies.	

**Acceptable Variance:**

A variance to a minimum of 90% of the watersheds below the baseline targets will be acceptable.

A zero variance for conducting a watershed review wherever new harvesting is planned in a watershed where the baseline target is exceeded.

**CURRENT STATUS AND COMMENTS**



A DFA-wide analysis of watersheds was conducted. The analysis was done during development of FOS 3 to determine the impact of blocks harvested to March 31, 2025 to each watershed's peak flow index. The analysis showed that 105 of 105 watersheds are below the baseline target for current state and 104 of 105 watersheds (100%) are below the baseline target for future state upon completion of all harvest activities by both participants.

The table below identifies the current and expected future state of PFI upon completion of all harvest activities proposed in FOS# 3.

**Table 17: PFI FOS 3 Condition and Targets**

Watershed Group	Watershed Name	Class	Size (km <sup>2</sup> )	Elevation range (m)	H60 Elevation (m)	Baseline Threshold PFI	PFI Current State 2017	PFI 2025
Fontas	Bedji Creek		230.42	460 – 600	508	50	1.6	1.9
Fontas	Chasm Creek		168.21	539 – 680	599	50	0.0	0.0
Fontas	Dazo Creek		260.27	360 – 494	460	50	1.0	0.7
Fontas	FONT Unnamed 1		117.73	361 – 481	461	50	0.6	0.4
Fontas	Fontas River		320.35	536 - 800	660	50	15.0	16.2
Fontas	Kataleen Creek		162.95	380 – 451	413	50	3.0	3.3
Fontas	Teklo Creek		212.81	380 – 474	426	50	0.1	0.1
Fontas	Upper Etthithun River		404.45	620 – 842	680	50	20.5	21.6
Fontas	Ekwan Creek	LB	850.5	360 – 481	420	50	2.0	2.1
Fontas	Etthithun River	LB	1161.6	440 – 842	535	50	8.0	8.6
Fontas	Fontas River - LB	LB	714.32	440 – 800	580	50	7.0	7.5
Kahntah	Dahl Creek		412.84	535 – 943	700	50	0.2	4.6
Kahntah	Helicopter Creek		147.32	505 - 742	613	62	0.1	0.1
Kahntah	KAHN Unnamed 4		226.87	640 – 944	720	50	0.9	2.9
Kahntah	KAHN Unnamed 5		126.05	538 – 721	624	62	0.5	0.4
Kahntah	Upper Cautley Creek		478.27	660 – 1022	740	62	9.8	11.6
Kahntah	Cautley Creek	LB	865.02	518 – 1022	680	62	5.6	6.6
Kahntah	Kahntah Creek	LB	1096.59	518 - 944	700	50	0.5	3.9
Lower Beatton	Aitken Creek		828.45	654-985	815	43	16.1	14.2
Lower Beatton	Charlie Lake		292.66	690-889	773	62	11.7	13.1
Lower Beatton	Doig River		983.34	623-852	731	43	1.1	1.5
Lower Beatton	Osborn River		735.95	623-987	745	43	38.2	58.6
Lower Beatton	Umbach Creek		430.91	611-866	741	43	7.8	8.9
Lower Beatton	Upper Blueberry		857.77	655-1048	820	50	15.9	17.1
Lower Halfway	Aikman Creek		118.74	640 - 1120	815	43	9.0	17.0
Lower Halfway	Blair Creek		230.44	698 – 1142	902	43	25.2	34.3
Lower Halfway	Cameron Creek		495.18	699 – 1203	944	43	6.8	11.8
Lower Halfway	Colt Creek		158.53	719 – 1701	913	43	7.0	8.0
Lower Halfway	Deadhorse Creek		208.99	560 – 959	820	43	19.9	23.5
Lower Halfway	Ground Birch Creek		338.39	558 – 1062	735	43	16.0	15.3
Lower Halfway	Horn Creek		426.61	1079 – 2347	1474	37	0.0	0.0



Watershed Group	Watershed Name	Class	Size (km <sup>2</sup> )	Elevation range (m)	H60 Elevation (m)	Baseline Threshold PFI	PFI Current State 2017	PFI 2025
Lower Halfway	Kobes Creek		299.88	620 – 1648	828	50	10.9	13.3
Lower Halfway	LHAF Unnamed 1		216.47	699 – 1022	860	43	11.3	14.5
Lower Halfway	Needham Creek		328.94	938 – 2269	1430	43	0.0	0.0
Lower Halfway	Poutang Creek		179.97	1098 – 2393	1453	43	0.0	0.0
Lower Halfway	Townsend Creek		295.8	698 – 1081	880	43	19.0	17.0
Lower Halfway	Cameron River - Residual	LB	2029.32	538 - 1205	837	37	14.9	19.8
Lower Halfway	Graham River	LB	2309.94	530 – 2404	1279	43	2.4	2.4
Lower Sikanni	Bull Creek		351.34	639 – 981	752	50	1.8	16.0
Lower Sikanni	Dechacho Creek		172.51	378 – 762	516	50	1.2	1.2
Lower Sikanni	Katah Creek		594.82	419 – 915	660	50	0.8	7.6
Lower Sikanni	Kenai Creek		78.86	400 – 621	1000	50	3.6	2.6
Lower Sikanni	LSIK Unnamed 2		162.43	536 – 858	720	43	5.5	11.3
Lower Sikanni	LSIK Unnamed 4		59.29	519 – 721	641	50	1.3	1.4
Lower Sikanni	Niteal Creek		516.6	359 – 520	475	50	0.1	0.1
Lower Sikanni	Upper Gutah Creek		806.45	559 – 901	728	62	1.1	3.2
Lower Sikanni	West Conroy		248.28	638 – 1020	782	50	5.8	24.5
Lower Sikanni	Conroy Creek	LB	1096.67	417 – 1020	720	50	3.2	15.5
Lower Sikanni	Gutah Creek	LB	1450.99	380 – 901	645	50	1.4	3.3
Milligan	Dede Creek		128.35	680 – 740	720	62	0.8	0.8
Milligan	Flick Creek		203.24	700 – 859	780	62	0.3	0.3
Milligan	Little Beaverdam Creek		334.14	690 – 854	732	62	0.4	0.4
Milligan	MILL Unnamed 3		325.52	780 – 962	880	62	4.3	4.7
Milligan	Milligan Creek		432.38	680 – 941	780	50	0.3	0.3
Milligan	Upper Milligan Creek		382.2	719 – 941	832	50	13.2	14.5
Milligan	Milligan Creek - LB	LB	1836.56	619 – 941	758	50	3.6	3.9
Upper Beatton	Arrow Creek		507.02	661 – 902	783	50	1.1	1.2
Upper Beatton	Beatton River		1071.09	777 – 1780	984	43	7.0	9.5
Upper Beatton	Black Creek		666.11	700 – 1022	807	50	6.8	7.7
Upper Beatton	Grewatsch Creek		269.73	736 – 1103	927	50	5.8	11.1
Upper Beatton	Holman Creek		150.18	719 – 1080	896	50	10.9	14.6
Upper Beatton	Jedney Creek		128.76	779 – 1101	952	43	7.9	13.0
Upper Beatton	La Prise Creek		338.99	717 – 1021	860	50	16.9	16.1
Upper Beatton	Martin Creek		120.24	700 – 980	830	50	42.3	47.6
Upper Beatton	McMillan Creek		103.34	659 – 770	736	43	0.2	0.2
Upper Beatton	Nig Creek		476.81	680 – 920	782	50	22.0	24.2
Upper Beatton	UBTN Unnamed 9		156.26	677 – 880	757	50	0.4	0.5
Upper Beatton	Upper Beatton Lrg	LB	2345.63	719 - 1782	924	50	9.1	12.4
Upper Halfway	Blue Grave Creek		158.63	720 – 1722	960	37	4.4	8.7
Upper Halfway	Horseshoe Creek		197.41	739 - 1762	1060	37	1.7	6.1
Upper Halfway	Two Bit Creek		160.23	980 – 1888	1235	37	0.4	0.4
Upper Halfway	UHAF Unnamed 3		127.86	922 – 1862	1221	37	0.0	0.0
Upper Halfway	UHAF Unnamed 6		211.34	778 – 1981	976	37	16.5	19.4
Upper Halfway	Upper Chowade		426.75	925 – 2336	1395	37	5.3	5.8



Watershed Group	Watershed Name	Class	Size (km <sup>2</sup> )	Elevation range (m)	H60 Elevation (m)	Baseline Threshold PFI	PFI Current State 2017	PFI 2025
Upper Halfway	Upper Cypress		334.89	1099 – 2316	1493	37	0.0	0.0
Upper Halfway	Upper Halfway River		629.22	1103 – 2590	1235	37	0.0	0.0
Upper Halfway	Chowade River	LB	988.88	779 - 2331	1475	43	6.6	7.8
Upper Halfway	Cypress Creek	LB	620.07	840 – 2229	1200	37	2.4	3.2
Upper Halfway	Upper Halfway River - LB	LB	1096.06	914 – 3057	1241	37	0.1	0.2
Upper Peace	Coplin Creek		350.04	582-942	773	43	22.3	24.4
Upper Peace	Farrel Creek		646.01	447-1686	713	43	16.4	24.5
Upper Peace	North Cache Creek		187.89	548-909	759	43	15.6	17.6
Upper Peace	Red Creek		239.85	446-919	753	43	14.0	16.4
Upper Prophet	Besa Creek		515.61	1136 – 2993	1568	43	0.0	0.0
Upper Prophet	Minaker River		170.31	859 – 1742	1060	43	1.3	1.3
Upper Prophet	Nevis Creek		182.43	1019 – 2102	1422	37	0.0	0.0
Upper Prophet	Pocketknife Creek		235.85	860 – 1884	1110	43	0.5	0.7
Upper Prophet	Upper Prophet River		269.62	1137 – 2920	1683	37	0.0	0.0
Upper Prophet	Minaker River - Residual	LB	555.08	819 – 1820	1070	43	0.8	1.0
Upper Prophet	Upper Prophet	LB	1177.85	1020 - 2993	1569	37	0.0	0.0
Upper Sikanni	Boat Creek		391.83	455 – 1081	719	50	0.0	0.0
Upper Sikanni	Buckinghorse River		389.18	840 – 1936	1119	43	1.0	1.6
Upper Sikanni	Coal Creek		214.49	637 – 1079	900	43	12.7	16.1
Upper Sikanni	Daniels Creek		223.39	758 – 1263	1041	43	3.3	4.5
Upper Sikanni	Donnie Creek		122.16	520 – 1043	822	50	10.4	16.8
Upper Sikanni	Loranger Creek		132.18	1025 – 2018	1390	43	0.0	0.0
Upper Sikanni	Medana Creek		138.68	702 – 1183	1000	43	0.2	2.0
Upper Sikanni	Middle Fork Creek		207.97	857 – 1269	1060	43	2.3	2.4
Upper Sikanni	Sidenius Creek		460.87	1119 – 2619	1489	43	2.6	2.8
Upper Sikanni	Sikanni Chief		470.52	1119 – 2739	1488	43	0.0	0.0
Upper Sikanni	Temple Creek		216.19	458 – 901	760	43	5.0	16.6
Upper Sikanni	Trimble Creek		160.27	1082 – 2122	1439	43	0.0	0.0
Upper Sikanni	Trutch Creek		858.44	491 – 1262	781	43	5.0	8.5
Upper Sikanni	Buckinghorse River - Residual	LB	1239.18	618 - 1936	1029	43	1.5	2.5
Upper Sikanni	Sikanni Chief - Residual	LB	2902	618 – 2739	1143	43	1.7	2.2



With respect to current state, the analysis indicates that all watersheds (105 of 105 - 100%) are within the target threshold for peak flow and the participants are in conformance with this indicator. Concerning future state, with the exception of the Osborn River, 104 of 105 (99%) watersheds are within the variance threshold for peak flow and the participants are in conformance with this indicator target.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no proposed revisions to this indicator or the target.

**3.35. WATER QUALITY CONCERN RATING**

Indicator Statement	Target Statement
The percentage of surveyed stream crossings annually identified with a high WQCR rating on forestry roads within the DFA for which Participants have stewardship *WQCR – water quality concern rating	On an annual basis fewer than 30% of the total number of surveyed stream crossings on roads for which the Participants have stewardship will have ‘High’ WQCR. <sup>17</sup>
<b>SFM Objective:</b> Maintenance of water quality	
<b>Linkage to FSJPPR:</b> N/A	

**Acceptable Variance:**

Maximum ‘high’ WQCR allowable will be 35%.

**CURRENT STATUS AND COMMENTS**

Water Quality Effectiveness Evaluation (formerly WQCR) field surveys were conducted on 30 crossings in 2017. Five of those crossings were along fish bearing streams. Results of the field surveys are presented below (table 18).

The participants achieved the indicator target for the 2017/18 reporting period.

<sup>17</sup> 2010 SFMP target revised to annual measurement from three year rolling average of 2004 SFMP



**Table 18: Summary of WQCR data collected during 2017**

<b>Status</b>	<b>WQCR 'High' or 'Very High' (# crossings)</b>	<b>WQCR 'Medium' (# crossings)</b>	<b>WQCR 'Low' or 'Very Low' (# crossings)</b>	<b>WQCR 'None' (# crossings)</b>	<b>Total (#)</b>	<b>%crossings rated 'High'</b>
All combined	0	1	12	17	30	<b>0</b>

The following photos are included to give the reader an impression of what 'high' and 'low' Water Quality Concern Ratings may relate to in the field. Figure 11 is an example of a crossing rated 'high'. Sites assessed soon after deactivation often look like this and can require further application of reclamation seed to lower the concern rating. Incorporating pieces of woody debris along the exposed soil surfaces can further reduce risk of soil erosion and sediment delivery, but can interfere with recreation traffic if excessive.



**Figure 11: Example of a crossing with a 'High' Water Quality Concern Rating**





Figure 12 is an example of a crossing rated 'low'. Abundant reclamation mix and natural vegetation has colonized soil exposures and lowered the risk of soil erosion and sediment delivery to waterbodies.



Figure 12: Example of a crossing with a 'Low' Water Quality Concern Rating

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions proposed to this indicator.





**3.36. PROTECTION OF STREAMBANKS AND RIPARIAN VALUES ON SMALL STREAMS**

Indicator Statement	Target Statement
The number of annual non-conformances to SLP measures related to protecting stream bank, stream channel stability and riparian vegetation from harvesting or silviculture activities.	No non-conformances to SLP measures related to protecting stream bank, stream channel stability and riparian vegetation from harvesting or silviculture activities.
<b>SFM Objective:</b> Maintenance of water quality	
<b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the FSJPPR this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies.	

**Acceptable Variance:**

The maximum allowable variance is one non-conformance per Managing Participant annually.

**CURRENT STATUS AND COMMENTS**

A review of BCTS incidents related to SLP measures to protect stream bank, stream channel stability and riparian vegetation on small streams due to harvesting or silviculture activities from April 1, 2017 to March 31, 2018 indicated that there were no instances of non-conformance to SLP measures during that reporting period.

A review of Canfor incidents related to SLP measures to protect stream bank, stream channel stability and riparian vegetation on small streams due to harvesting or silviculture activities from April 1, 2017 to March 31, 2018 indicated that there was one non-conformance to SLP measures during that period of time. During a final block inspection it was noted at the time that the crossings in the block were not deactivated to the point where they were free and clear of road material.

A variance of one non-conformance per participant is allowed annually. There was 1 participant non-conformance; The participants were not in conformance to the indicator are within the tolerance provided by the variance.

Target Achieved	
✓ Yes	No

**REVISIONS**

None proposed.

**3.37. SPILLS ENTERING WATERBODIES**

Indicator Statement	Target Statement
Number of spills of a reportable substance (i.e. antifreeze, diesel fuel, gasoline, greases, hydraulic oil, lubricating oil, methyl hydrate, paints and paint thinners, solvents, pesticides, and explosives) entering water bodies.	Zero spills entering water bodies
<b>SFM Objective:</b> Maintenance of water quality	



Linkage to FSJPPR: N/A

**Acceptable Variance:**

None.

**CURRENT STATUS AND COMMENTS**

A review of the Participant's Incident Tracking Systems (ITS) incidents indicate that the licensee participants as well as BCTS, had no spills of a reportable substance that entered water bodies during the 2017-18 reporting period.

Target Achieved	
✓ Yes	No

**REVISIONS**

None.

**3.38. CARBON SEQUESTRATION RATE**

Indicator Statement	Target Statement
Maintenance of DFA average carbon sequestration rates.	Maintain DFA average carbon sequestration rates that are consistent with or greater than natural sequestration rates.
<b>SFM Objective:</b> Maintenance of the processes for carbon uptake and storage	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

No decline lower than the natural disturbance sequestration rate as modeled in support of this indicator is acceptable.

**CURRENT STATUS AND COMMENTS**

There have been no changes in the status of this indicator since the development of SFMP#1.

The strategy to manage sequestration rates is through prompt reforestation (section 3.30) and maintaining acceptable levels of stocking over the landscape on previously harvested and regenerated sites (section 3.29). The participants are in conformance with the requirements of indicators 29 and 30 (conifer and deciduous establishment).

Updating of the carbon sequestration rates for the DFA will be initiated provided that a revised carbon budget modeling analysis, which is expected to be a component of the current MFLNRORD timber supply analysis, is actually completed by the MFLNRORD.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions planned for this indicator.



**3.39. ECOSYSTEM CARBON STORAGE**

Indicator Statement	Target Statement
The percentage of ecosystem carbon stored in the Fort St. John DFA relative to projected natural levels.	Maintain ecosystem carbon storage at a minimum of 95% of projected natural storage levels.
<b>SFM Objective:</b> Maintenance of the processes for carbon uptake and storage	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

No acceptable variance.

**CURRENT STATUS AND COMMENTS**

There have been no changes in the status of this indicator since the development of SFMP#1. The strategy to manage carbon storage is through prompt reforestation (section 3.30) and maintaining acceptable levels of stocking over the landscape on previously harvested and regenerated sites (section 3.29) and adherence to cut control requirements (section 3.53) which will sustain the long term harvest level for the DFA (section 3.31). The participants are in conformance with the requirements of indicators 29, 30 (deciduous and coniferous establishment delay), 31 and 53.

Updating of the natural carbon storage levels for the DFA will be initiated provided that a revised carbon budget modeling analysis, which is expected to be a component of the current MFLNRORD timber supply analysis, is actually completed by the MFLNRORD.

Target Achieved	
✓ Yes	No

**REVISIONS**

The new TSR will be reviewed to determine whether a carbon budget modelling analysis was completed. If so, changes to this indicator will be considered.

**3.40. COORDINATED DEVELOPMENTS**

Indicator Statement	Target Statement
Number of coordinated developments	Report annually the number of proposed coordinated developments that occurred.
<b>SFM Objective:</b> Foster inter-industry cooperation to minimize conversion of forested lands to non-forest conditions	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

The opportunities for coordinated development will fluctuate annually based on the overall activity of the oil and gas industry as well as the proximity of operations to one another. Any



amount of coordinated development on the basis of making participants' plans readily available will be viewed as a positive step in reducing the conversion of forested lands to non-forest conditions. No variance is necessary, as the target is to report out on coordinated activities that occurred between the industries.

### **CURRENT STATUS AND COMMENTS**

Following is a summary of proposed changes to activities related to coordinating development between licensee participants and the oil and gas industry between April 1, 2017 and March 31, 2018.

Canfor received 176 referrals of Oil and Gas activities. While many of the referrals already had measures proposed to minimize impacts on forestland, forest licensees did make recommendations on multiple projects.

- 6 requests to alter plans to prevent impacts to WTP's, riparian areas, specific wildlife features, streams and NCD's were made by Canfor.
- 14 request to maintain access beyond Oil and Gas activities
- 6 cases where companies were asked to utilize existing access as opposed to building new roads for proposed projects.
- 3 requests to rehabilitate forestry roads where oil and gas development has built superior roads to the same location.

Canfor provided oil and gas companies with a total of 259 road use agreements for use of Canfor roads. Oil and gas companies consequently provided a number of road use agreements for thier roads to Canfor. In most of the referrals received, planned access to the propsed oil and gas development had considered information from the Participant's Forest Operations Schedule.

In 2 other instances Canfor worked collaboratively with oil and gas proponents to develop coorindated plans that worked to address local First Nations values and interests. These instances involved blocks 04120 and 04271 and their associated access road as well as block 04193 and it's associated roads.

Following is a summary of proposed changes to activities related to coordinating development between BCTS and the oil and gas industry.

BCTS received a total of 32 oil and gas referrals between April 1<sup>st</sup>, 2017 and March 31<sup>st</sup>, 2018. Of the 32 referrals BCTS received, there were 7 proposed changes. The changes consisted of the following:

- The request that the proposed construction sites be moved to a location outside of the BCTS block. - 2 referral replies.
- The request that the oil and gas company cover compensation for the amendments required to the affected BCTS block as it was ready to be advertised. - 1 referral replies.
- The request that post construction shape files be submitted to BCTS for silviculture reductions. - 2 referral replies.
- The request for the construction timeline to be adjusted to avoid in block construction while the block has active harvesting. - 2 referral replies.



The remaining 25 referrals had very little or no impact to BCTS blocks and required minor or no changes to the proposed oil and gas activity.

Most of the referrals from oil/gas industry appeared to have utilized the FOS maps provided to the industry. In doing so out BCTS planned and/or developed infrastructure was considered.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions planned for this indicator.

**3.41. RANGE ACTION PLANS**

Indicator Statement	Target Statement
Percent consistency with mutually agreed upon action plans for range	Operations 100% consistent with resultant range action plans
<b>SFM Objective:</b> Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

Variances are permissible only on reaching mutual agreement between the affected range tenure holder and Participant.

**CURRENT STATUS AND COMMENTS**

There were no new Timber Range Action Plans (TRAPS) completed and signed between Canfor and range tenure holders during the reporting period. Similarly, there were no mutually agreed upon actions that occurred during this reporting period.

There were no new Timber Range Action Plans (TRAPS) completed and signed between BC Timber Sales and range tenure holders during the 2017-2018 reporting period. Similarly, there were no mutually agreed upon actions that occurred during this reporting period.

Participants' operations were 100% consistent with mutually agreed upon action plans due during the reporting period, regarding range tenures.

Target Achieved	
✓ Yes	No

**REVISIONS**

Revisions to this indicator will be considered over the next 1-2 years in light of the SFMP #3 approval letter.



**3.42. DAMAGE TO RANGE IMPROVEMENTS**

Indicator Statement	Target Statement
Number of range improvements damaged by Participants' activities.	Zero range improvements damaged by Participants' activities.
<b>SFM Objective:</b> Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities	
<b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the FSJPPR this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies.	

**Acceptable Variance:**

Temporary removal or alteration of a range improvement to enable short-term forestry activities to proceed is permissible. However, repairs to or replacement of improvements must be completed in less than one year from the time they were damaged. The indicator target would not apply if a Participant can implement alternative mitigation measures to the satisfaction of the range tenure holder.

**CURRENT STATUS AND COMMENTS**

While there were no range improvements damaged by Canfor activities, in the spring of 2017 Canfor did commit to replacing a range fence in cooperation with the range tenure holder of RAN076539. The existing range fence was not functioning like it should have been due to windthrow, possibly caused by past harvesting activities, and age. The fence was relocated, constructed and is now functioning again.

The following tables show that there are no records for any instances where no range issues carried over from the last annual report and no range improvements were damaged directly by Participants activities during this reporting period.

**Table 19:** Follow up of Range Improvement issues identified in 2016-17 Annual Report

Range Tenure(s)	COPI action reference	Nature of damage	Resolution
n/a	n/a	n/a	n/a

**Table 20:** Range Improvement damaged during 2017-18 Annual Report Period

Range Tenure(s)	COPI action reference	Nature of damage	Resolution
n/a	n/a	n/a	n/a



During the reporting period no range improvements were damaged and no repairs were required.

During the reporting period BCTS did not incur any instances whereby a range improvement was damaged and not repaired within 1 year of occurrence.

Target Achieved	
✓ Yes	No

**REVISIONS**

Revisions to this indicator will be considered over the next 1-2 years in light of the SFMP #3 approval letter.

**3.43. RECREATION SITES**

Indicator Statement	Target Statement
The number of recreation sites maintained by Participants	Participants will maintain a minimum of one recreational site within the DFA
<b>SFM Objective:</b> Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

No less than the target.

**CURRENT STATUS AND COMMENTS**

During the reporting period Canfor continued maintenance of the Crying Girl Prairie campsite, utilizing a local contractor to provide site cleanup, outhouse cleaning, and garbage disposal.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no proposed revisions to this indicator or the target.





**3.44. VISUAL QUALITY OBJECTIVES**

Indicator Statement	Target Statement
Consistency with Visual Quality Objectives (VQO's)	Pilot participants' forest operations will be consistent with the established VQO's
<p><b>SFM Objective:</b> Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities</p>	
<p><b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the FSJPPR this indicator, statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies.</p>	

**Acceptable Variance:**

A variance to the requirement for consistency with established VQO's, where approved by the District Manager, is permitted on a site-specific basis, where required to address risks to resource values or safety issues (e.g. fire salvage, sanitation harvesting for forest pest control), as identified in a SLP. A rationale will be prepared by a professional forester, and must specify the reasons for the variance and the measures that will be implemented to address the resource value at risk and mitigate impacts on the visual resource.

**CURRENT STATUS AND COMMENTS**

The SFMP strategy directing the timing of visual quality assessments specifies that post harvest reviews of harvested areas that fall within visually sensitive landscapes will be completed no later than December 31 of the following year after harvesting is completed (e.g. if logging is finished in November of 2016, the post harvest assessment must be done by December 31, 2017).

For the 2017/18 reporting period, Canfor assessed the blocks where harvesting was completed prior to December 31, 2016 and found 23 blocks that fell into visual quality objective polygons and would require VQO assessments during the reporting period. All 23 post harvest visual quality assessments were completed and were found to have met the visual quality objectives for the polygon.

Blocks 01199 and 01002 were blocks that Canfor had not completed a VQ assessment on prior to completion of the 16/17 annual report. After completion of the visual impact assessment, it was determined that both of these blocks met the VQ objectives.

Blocks 01200, 01161, and 01162, that were not assessed prior to the end of 2016 from the 16/17 report, still require assessments. These blocks will be assessed before the end of 2018 and the results will be reported in the 2018/19 annual report.

Canfor is therefore in conformance with the target for this indicator.



For the 2017-2018 reporting period, BCTS had four blocks that fell within area requiring management of Visual Quality Objectives. There were no variances approved by the MFLNRO for the requirement to achieve the Visual Quality Objectives, which would have waived the requirement to complete a post-harvest Visual Quality Assessment. Therefore four post-harvest visual quality assessments were required to be completed. A visual quality assessment was due to be complete by December 31, 2017 on Blocks 06040, 06043, 45042 and 01026. To the date of preparation of this report, the post-harvest visual quality assessment of these blocks has been completed. The visual quality objective was met on these four blocks. BCTS is therefore in conformance with the target for this indicator.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no proposed revisions to this indicator.

**3.45. RECREATION OPPORTUNITY SPECTRUM**

Indicator Statement	Target Statement
Area in primitive and semi-primitive non-motorized classifications of the Recreation Opportunity Spectrum (ROS) for the Graham, Sikanni, and Crying Girl LU's.	A minimum of 65,839 ha in primitive ROS area (100% of 1996 primitive ROS area) and 180,726 ha in semi primitive non-motorized ROS area (50% of the 1996 total semi primitive NM ROS area) in the combined Graham, Crying Girl and Sikanni LU's (excluding the Graham Laurier and Redfern-Keily PA's).
<p><b>SFM Objective:</b> Provide opportunities for a feasible mix of timber, recreational activities and non-timber commercial activities</p>	
<p><b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the FSJPPR this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies.</p>	

**Acceptable Variance:**

The primitive Recreation Opportunity Spectrum (ROS) percentage for the B-H-C may fluctuate over time as roads are constructed and permanently deactivated to retain the percentage at 1996 levels. At any given time the primitive ROS percentage may decrease down to 10% on a temporary basis until such time as the constructed forest roads are permanently deactivated and the primitive classification is restored.

There is no variance necessary for the remaining RMZ's.

**CURRENT STATUS AND COMMENTS**

During development of the FOS#3, the FOS was analyzed to project the potential impact on the ROS targeted percentages; all of proposed development was consistent with the SFMP ROS



targets. Many of the blocks proposed by FOS# 1 and FOS#2 for harvest in the Crying Girl and Graham RMZs have not been harvested and no new activities were proposed in FOS #3.

The following table identifies the condition of the recreation opportunity spectrum expected upon the completion of all harvest operations in FOS# 3. In the event that the FOS is amended to include new block or road area that may impact the Participants' performance to this indicator, the ROS analysis will be redone to determine the potential impact.

**Table 21: Projection of Changes to ROS Class from 1996 to 2025**

Crying Girl Graham & Sikanni LU	ROS Class Projection to 2016- After Modeling Impact of Proposed Development in 2010 FOS											
	Primitive		Semi Primitive Non-Motorized		Semi Primitive Motorized		Roaded		Urban/ Agriculture		Total Area (ha)	Total %
	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%		
Total 1996 ha	65,839	12.1%	361,451	66.2%	116,090	21.3%	269	0.0%	2287	0.4%	545,936	100.0%
Total 2010 Projected ha (from 2004 FOS)	65,839	12.1%	344,488	63.1%	133,056	24.4%	269	0.0%	2,287	0.4%	545,939	100.0%
<b>2010 SMFP Target</b>	<b>65,839</b>		<b>180,726</b>		<b>NA</b>		<b>NA</b>		<b>NA</b>		<b>NA</b>	

Table 20 summarizes the projected ROS condition presented in FOS# 3. It should be noted that FOS# 3 included developments proposed in the Crying Girl and the Graham landscape units. The proposed development of FOS# 3 was found to be consistent with the SFMP ROS targets.

No logging occurred in this area between 2008 and Sep 1, 2018. The current status remains consistent with the target range for this indicator.

As the minimum targets of 65,839 ha in primitive ROS area (100% of 1996 primitive ROS area) and 180,726 ha in semi primitive non-motorized ROS area have been identified to be maintained through completion of harvesting of all blocks in FOS# 3, the participants are therefore in conformance with the target for this indicator.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no proposed revisions to this indicator or the target.

**3.46. ACTIONS ADDRESSING GUIDES, TRAPPERS AND OTHER INTERESTS**

Indicator Statement	Target Statement
Percentage of operations consistent with mutually agreed upon action plans for guides,	100% of operations will be consistent with action plans for guides, trappers and other non-timber commercial interests.



trappers and other known non-timber commercial interests.	
<b>SFM Objective:</b> Provide opportunities for a feasible mix of timber, recreational activities and non-timber commercial activities	
<b>Linkage to FSJPPR:</b> N/A	

**Acceptable Variance:**

Variances are permissible only on reaching mutual agreement between the affected tenure holders and Participant.

**CURRENT STATUS AND COMMENTS**

During the reporting period of April 1, 2017 to March 31, 2018 there were no Licensee operations conducted in areas where mutually agreed upon action plans were required to be prepared with guides, trappers or other non-commercial timber interests.

During the reporting period of April 1, 2017 to March 31, 2018 there was no BCTS operations conducted in areas wheremutually agreed upon action plans were prepared with guides, trappers or other non-commercial timber interests.

Target Achieved	
✓ Yes	No

**REVISIONS**

Revisions to this indicator will be considered over the next 1-2 years in light of the SFMP #3 approval letter.

**3.47. TIMBER PROCESSED IN THE DFA**

Indicator Statement	Target Statement
Volume of timber processed in the DFA in proportion to volume harvested in the DFA	The annual equivalent of a minimum of 70% of the DFA's harvest is primary processed in the DFA <sup>18</sup>
<b>SFM Objective:</b> Viable timber processing facilities in the DFA	
<b>Linkage to FSJPPR:</b> N/A	

**Acceptable Variance:**

An acceptable negative variance of 5% (i.e. a minimum of 65% of the harvest processed in the DFA) is permissible. This target level and variance is necessary to account for timber harvested within the DFA that is not directly harvested by the Participants thus having less control as to its final processing destination.

**CURRENT STATUS AND COMMENTS**

The following table outlines the volume of timber processed at facilities in the DFA in proportion to the entire volume of timber harvested and delivered to professing facilities in the DFA up to and including March 31, 2018.

<sup>18</sup> Indicator as revised in Oct 30,2005 submission of 2004-2005 Annual Report

**Table 22: Proportion of Total Volume Locally Processed**

	Total Scaled Volume of Timber Delivered to Local Processing Plants (m <sup>3</sup> )	(a) Total Scaled Volume of Timber Originating Within the DFA (m <sup>3</sup> )	(b) Total Scaled Volume of Timber Originating Within the DFA and Processed Within the DFA (m <sup>3</sup> )	(b/a) % of Total DFA Volume Processed Locally
Conifer volume (m <sup>3</sup> )	1,063,275	1,133,519	943,866	83%
Deciduous volume (m <sup>3</sup> )	849,429	784,629	784,629	100%
<b>All</b>	<b>1,912,704</b>	<b>1,918,148</b>	<b>1,728,495</b>	<b>90.1%</b>

The above quoted volumes include woodlot and private wood, but exclude oil and gas salvage since the originating Timber Supply Area cannot be confirmed for salvage wood deliveries. Also excluded from the TSA delivery totals were deliveries from Alberta, Dawson Creek (including Site C salvage volumes).

The majority of the timber harvested in the DFA was processed at facilities within the DFA (90.1%).

Target Achieved	
✓ Yes	No

### **REVISIONS**

There are no proposed revisions to this indicator or the target.

### **3.48. SUMMER AND FALL VOLUMES**

Indicator Statement	Target Statement
Volume of timber (m <sup>3</sup> ) delivered annually to wood processing facilities within the Fort St. John Defined Forest Area (DFA) wood processing facilities between May 1 <sup>st</sup> and November 30 <sup>th</sup>	Minimum of 100,000 m <sup>3</sup> to conifer mills in the DFA  Minimum of 185,000 m <sup>3</sup> to deciduous mills in the DFA
<b>SFM Objective: Maintain viable timber processing facilities in the DFA</b>	
Linkage to FSJPPR: N/A	

### **Acceptable Variance:**

The target volumes assume planned production levels are achieved at the local mills. Allowable variances for the minimum acceptable deliveries may be reduced proportionally for the number of actual operating weeks, divided by the normal fifty operating weeks of the facilities per year.

### **CURRENT STATUS AND COMMENTS**

Between May 1<sup>st</sup>, 2017 and November 30<sup>th</sup>, 2017, a total of 517,686m<sup>3</sup> was delivered to the Fort St. John sawmill, and a total of 464,044m<sup>3</sup> were delivered to the deciduous manufacturing facility



to support continuing operations throughout the summer and fall. The total volumes delivered exceed the minimum volumes required to meet the target.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no proposed revisions to this indicator or the target.

**3.49. FOREST HEALTH FOS PLANNING<sup>19</sup>**

Indicator Statement	Target Statement
Percentage of new conifer-leading harvest blocks in the 2017 Forest Operations Schedule that are pine-leading.	A minimum of 50% of new conifer-leading harvest blocks in the 2017 FOS will be pine-leading.
<b>SFM Objective:</b> Maintain or enhance landscape level productivity Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance	
<b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the FSJPPR this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Forest Health Management Landscape Level Strategy.	

**Acceptable Variance:**

A 10% variance (i.e. minimum of 40% new conifer leading blocks in the 2017 FOS will be pine leading) is required in the event some FOS proposed blocks are dropped prior to submission of the final FOS due to public input during or after the public review and comment period.

**CURRENT STATUS AND COMMENTS**

Approximately 15% of the blocks in FOS 2017 are pine leading. Much of the pine leading stands that were identified during planning exercises did not meet merchantability requirements when reviewed in the field. This is a function of beetle killed pine surpassing its shelf life.

Target Achieved	
Yes	X No

**REVISIONS**

Revisions to this indicator are being considered due to the decreasing level of merchantability of the pine leading stands and other emerging forest health concerns.

**3.50. COORDINATION<sup>20</sup>**

Indicator Statement	Target Statement
Percentages of SFMP's and FOS's jointly prepared by the Participants	100% of all SFMP's and FOS's will be jointly prepared by the Participants
<b>SFM Objective:</b> Maintain viable timber processing facilities in the DFA	

<sup>19</sup> New indicator in 2010- previous # 49 in SFMP # 1 was Harvest Systems which has been deleted

<sup>20</sup> The indicator was made a legal indicator in SFMP#2 to emphasize the commitment to coordinated planning by the Participants



**Linkage to FSJPPR:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy

**Acceptable Variance:**

May exclude new Participants that join the Pilot Project and can be assigned blocks from an existing plan, or Participants that are not required to complete a plan (e.g. TSL holders).

**CURRENT STATUS AND COMMENTS**

There were 53 amendments to the FOS during the reporting year, one requiring public review and comment (amendment 324) and the balance not requiring public review. FOS amendments continue to be coordinated through a mutual notification protocol. The participants were consistent in following the established amendment procedures, pertaining to ensuring that all participants are aware of, or are involved in, amendments to the FOS.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions to this indicator and target.

**3.51. TIMBER PROFILE-DECIDUOUS<sup>21</sup>**

Indicator Statement	Target Statement
The area (ha) of deciduous-leading cutblocks identified in Supply Block F for harvest during the term of the SFMP.	A minimum of 200 ha of deciduous-leading cutblocks located in Supply Block F will be identified for harvest during the term of the new SFMP.
<b>SFM Objective:</b> No decrease in the LTHL in the DFA	
<b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the <i>FSJPPR</i> this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy.	

**Acceptable Variance:**

None.

**CURRENT STATUS AND COMMENTS**

To date there has been no harvesting in deciduous-leading cutblocks located in Supply Block F. During the development of Forest Operations Schedule #3, a substantial amount of deciduous-leading area was identified for harvest in Supply Block F – over 4558.6ha. The following table presents a summary by block.

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<sup>21</sup> New indicator in 2010 SFMP. Previous Indicator # 51 in SFMP # 1 was 'Utilization' which has been dropped



**Table 23:** Supply Block F Deciduous Leading Stand Proposed Harvest Area

BLOCK ID	At %	Ac%	PI %	S %	BI %	Gross Area (ha)
14014	93	2	0	5	0	11.9
14018	64	1	6	29	0	62.4
14020	86	0	0	14	0	42.8
14035	71	4	2	23	0	104
14039	67	0	1	26	0	18.7
14042	53	11	3	33	0	61.8
14044	64	0	19	15	0	141.4
14055	77	3	0	19	0	115.4
14056	86	0	7	6	0	46.1
14061	83	0	2	14	0	134.7
14063	59	0	3	38	0	58.4
16010	97	0	0	2	0	622.3
16011	82	0	11	7	0	107.3
16014	91	0	0	9	0	135
16015	99	1	0	0	0	63.5
17004	59	1	0	33	0	126.2
17008	76	0	0	7	0	22.9
41030	85	5	0	10	0	25.7
41040	58	0	18	24	0	266.2
41044	89	0	11	0	0	245.4
41053	51	18	27	4	0	112.9
41054	48	6	31	15	0	80.9
41070	90	0	5	5	0	136.7
41096	75	0	0	25	0	20.9
42024	97	2	0	0	0	60.9
42026	79	0	0	16	0	49.2
50001	68	12	0	20	0	75.9
50002	95	0	0	5	0	20.9
50003	95	0	0	5	0	80.2
50004	60	10	3	27	0	169.7
50005	60	10	3	27	0	37.7
50007	95	0	0	5	0	38.3
50008	90	0	0	10	0	25.5
50009	90	0	0	10	0	17.5
50010	70	10	5	10	5	84.5
50011	90	0	0	10	0	4.4
50012	88	0	0	12	0	7.6
50013	80	10	2	8	0	57.6
50014	90	0	0	10	0	4.7



50015	70	10	0	20	0	10.7
50016	70	10	0	20	0	123.9
50017	70	10	0	20	0	49.3
50018	80	10	5	5	0	107.5
50020	90	0	0	10	0	17.5
50022	90	0	0	10	0	17
50023	90	0	0	10	0	7
50025	75	0	0	25	0	19.9
50026	90	0	2	8	0	114.2
50031	89	2	2	6	0	20.8
50034	74	3	0	23	0	38.2
50037	64	0	0	35	0	43.4
50038	81	0	0	19	0	55.2
50041	66	0	0	34	0	29.2
50047	85	0	15	0	0	18.4
51011	96	0	0	4	0	58.3
51013	66	0	0	34	0	168.5
51015	63	0	0	37	0	116
51019	73	0	0	27	0	45.5
<b>Total</b>						<b>4558.6</b>

As noted in the above table, a total of 4558.6 ha of deciduous-leading stands have been identified in Supply Block F.

Target Achieved	
✓ Yes	No

**REVISIONS**

This indicator will be reviewed for relevance in light of the partition requirements in the 2018 TSR.

**3.52. TIMBER PROFILE-CONIFER**

Indicator Statement	Target Statement
The percentage of the total cutblock area in harvested blocks that was identified as preharvest height-class two pine inventory types	April 1, 2016-March 31, 2022: 8% or more of the total coniferous cutblock area harvested by managing participants during the 5-year period will be in height-class two pine inventory types.
<b>SFM Objective:</b> No decrease in the LTHL in the DFA	
<b>Linkage to FSJPPR:</b> For the purposes of Section 42 of the FSJPPR this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies.	



**Acceptable Variance:**

April 1<sup>st</sup>, 2016-March 31<sup>st</sup>, 2022: Allowable Minimum 0%. This indicator is to be reviewed after the next TSR to ensure relevance to the new TSR.

The recent dramatic shift in harvesting directed at Mountain Pine Beetle (MPB) infested or “at risk” stands is expected to continue for the next few years. The impacts on mid-term AAC sustainability in the TSA are likely to be less if activities are directed towards the currently infested MPB areas, (which tend to be in larger diameter mixed pine/spruce stands) and away from lower risk, smaller diameter pine stands (i.e. Height class two pine polygons).

Due to improved inventory typing (VRI), it is expected that the next Timber Supply Review (TSR III), to be completed by 2013, will better define the merchantable pine stands from the non-merchantable stands that the old inventory had lumped together under height class two pine. As a consequence, it would be prudent to review this indicator’s relevance to sustainability of the harvest levels at that time.

**CURRENT STATUS AND COMMENTS**

The Managing Participants have harvested 36.9ha of height class II pine since the start of the period for this indicator. This equates to 0.4% of the total conifer cutblock area. The Managing Participants are within the acceptable variance of this indicator.

**Table 24: Height-class 2 Pine area harvested 2017/18**

Annual Report Period	Conifer Cutblock Merch Area - Canfor (ha)	Height class II Pine area - Canfor (ha)	Conifer Cutblock Merch Area - BCTS (ha)	Height class II Pine area - BCTS (ha)	Height class II Pine area (%)
2016/17	3478.7	14.6	980.8	15.2	0.7%
2017/18	3201.7	7.1	1280.1	0	0.16%
Total	6680.4	21.7	2260.9	15.2	0.4%

Target Achieved	
✓ Yes	No

**REVISIONS**

This indicator will be reviewed for relevance in light of the partition requirements in the 2018 TSR.

**3.53. CUT CONTROL**

Indicator Statement	Target Statement
Percentage of total Allowable Annual Cut (AAC) charged to licensee tenure holders or BCTS Participants during the term of the SFMP.	Jan 1 2016- Dec 31 2021: <u>Industry Participants:</u> -Not to exceed 110% of the combined cumulative coniferous AAC for the 6 year period



	-Not to exceed 110% of the combined cumulative deciduous AAC for the 6 year period <b>BCTS Participant:</b> -Not to exceed 110% of the combined cumulative coniferous commitment offered for sale for the 6 year period -Not to exceed 110% of the combined cumulative deciduous commitment offered for sale for the 6 year period
<b>SFM Objective:</b> No decrease in the Long Term Harvest Level (LTHL) in the Defined Forest Area (DFA)	
<b>Linkage to FSJPPR:</b> N/A	

**Acceptable Variance:**

None, however the actual volume permissible to be harvested may be adjusted through time if additional licenses are awarded to Participants to address past undercuts, or changes made by the Chief Forester to the approved AAC for the TSA.

**CURRENT STATUS AND COMMENTS**

The following tables identify the volume harvested by the Participants during the monitoring period established for this indicator.

**Table 25: Licensee Conifer Licence AAC**

Licence	AAC (m <sup>3</sup> )	Planning Period Cumulative Volume AAC (m <sup>3</sup> )							Total Volume Harvested (m <sup>3</sup> )
			2016	2017	2018	2019	2020	2021	
Canfor A18154	394,952	2,369,712	554,418	764,246					1,318,664
DZ A56771	150,000	900,000	187,250	51,074					238,324
CRL A59959*	70,000	70,000	59,223	exp					59,223
Tembec A60972	83,494	500,964	54,890	132,205					187,095
<b>Total</b>	<b>698,446</b>	<b>3,840,676</b>	855,781	947,525	0	0	0	0	1,803,306
<b>Maximum Cumulative AAC (m<sup>3</sup>)</b>			<b>4,224,744</b>						
<i>* In 2016 the CRL licence expired. The cumulative AAC has taken this into account</i>									
Maximum cumulative AAC = 110% of cumulative AAC									



**Table 26: Licensee Deciduous Licence AAC**

Licence	AAC (m <sup>3</sup> )	Planning Period Cumulative Volume AAC (m <sup>3</sup> )							Total Volume Harvested (m <sup>3</sup> )
			2016	2017	2018	2019	2020	2021	
LP A60049	193,000	1,158,000	334,534	155,573					490,107
PVOSB A85946	150,000	900,000	-1,789	347,312					345,523
Canfor / LP PA 12 & 20*	500,000	3,000,000	29,771	12,935					42,706
<b>Total</b>	<b>843,000</b>	<b>5,058,000</b>	362,516	515,820	0	0	0	0	878,336
<b>Maximum Cumulative AAC (m<sup>3</sup>)</b>		<b>5,563,800</b>							
<p><i>*In 2013 PA 12 was subdivided creating PA 20. Combined AAC of the 2 PAs remains unchanged at 500,000 m<sup>3</sup>. AAC volumes for 2017 have not been finalized for PA12/20 yet. Volume is based on deliveries to the three facilities in the DFA.</i></p>									
Maximum cumulative AAC = 110% of cumulative AAC									

The tables above reflect adjusted volumes found in the most recent cut control statements. Annual adjustments can occur in each licence. Therefore, volumes reported in the annual report may not reflect previous annual reports.

**Table 27: BCTS Volume Allotment**

Species	AAC (m <sup>3</sup> )	Planning Period 6 year cumulative volume commitment offered for sale (m <sup>3</sup> )	Volume Offered for Sale by Calendar Year (m <sup>3</sup> )						Total Volume Offered (m <sup>3</sup> )
			2016	2017	2018	2019	2020	2021	
Conifer	372,059	2,232,354	443,210	293,742					736,952
Deciduous	180,000	1,080,000	60,245	92,486					152,731
Maximum cumulative coniferous AAC		<b>2,455,589</b>							
Maximum cumulative deciduous AAC		<b>1,188,000</b>							



Maximum cumulative AAC = 110% of cumulative AAC

The annual BCTS coniferous allotment in 2017/18 was 372,059 m<sup>3</sup>. Between April 1, 2017 and March 31, 2018, BC Timber Sales offered 293,742 m<sup>3</sup> (78.9%) of the annual allocation. Of the 293,742 m<sup>3</sup> offered, 16 TSL's with a volume of 278,090m<sup>3</sup> sold.

The annual BCTS deciduous allotment in 2017/18 was 220,000 m<sup>3</sup>. Between April 1, 2017 and March 31, 2018, BC Timber Sales offered 92,486 m<sup>3</sup> (42.0%) of the annual allocation. Of the 92,486 m<sup>3</sup> offered, one TSL's with a volume of 46,263 m<sup>3</sup> sold.

2017 represented the second year of this 6-year cumulative cut review period, which concludes December 31, 2021.

To date of this annual report, the participants' activities are consistent with the indicator and target.

Target Achieved	
✓ Yes	No

**REVISIONS**

This indicator will be reviewed in light of the new AAC and TSR released in 2018.



**3.54. DOLLARS SPENT LOCALLY ON EACH WOODLANDS PHASE**

Indicator Statement	Target Statement
Percentage of dollars spent locally on each woodlands phase in proportion to total expenditures	Woodlands Phases to be monitored: Logging/hauling: minimum of 80% Road construction/maintenance: minimum of 80% Silviculture: minimum of 5% Planning and administration: minimum of 50%
<b>SFM Objective:</b> Diverse local forest employment opportunities exist in the DFA	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

A 10% variance to the minimum target (e.g. logging/hauling 10% lower than 80%= 72% of costs) is required for each identified woodlands phase, as the dollars to be spent fluctuate annually, depending on the amount of harvesting completed that year.

**CURRENT STATUS AND COMMENTS**

The following table outlines local expenditures by woodlands phase, and performance of the participants relative to the targets for this reporting period.

**Table 28: Dollars Spent Locally by Woodlands Phase – 2017**

Combined BCTS & Canfor Phases	Total Dollars Spent (\$)	Total Dollars Spent Locally (\$)	Percentage of Dollars Spent Locally (%)	Indicator Target Percent (%)
Logging and Hauling	\$ 80,298,608.81	\$ 75,245,188.94	93.7%	80.0%
Reforestation	\$ 4,036,186.26	\$ 180,287.16	4.5%	5.0%
Road Construction and Maintenance	\$ 6,900,686.19	\$ 6,241,392.05	90.4%	80.0%
Planning and Administration	\$ 9,350,006.55	\$ 6,544,137.48	70.0%	50.0%
<b>Total</b>	<b>\$ 100,585,487.81</b>	<b>\$ 88,211,005.63</b>	<b>87.7%</b>	

All four phases met the minimum targets for dollars spent locally. Reforestation was slightly under the target of 5%. With the allowed variance of 10% on the 5% target for reforestation, the minimum percentage was achieved. Approximately 88% of all expenditures were made locally.

It should be noted that BCTS costs for this indicator refer to April 1, 2017 - March 31, 2018, while other participant's costs are based on calendar year reports due to reporting limitations. This is consistent with previous annual reports for this indicator.

The participants' activities are consistent with four of the four targets associated with the indicator.

Target Achieved	
✓ Yes	No

**REVISIONS:**

The reforestation spend target was amended to 5% for the 2012 reporting year. This change became effective April 1, 2012.





**3.55. DIRECT AND INDIRECT EMPLOYMENT**

Indicator Statement	Target Statement
Level of direct and indirect employment.	Report the current level of direct and indirect employment expressed as a factor of harvest level times employment multiplier.
<b>SFM Objective:</b> Diverse local forest employment opportunities exist in the DFA	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

None

**CURRENT STATUS AND COMMENTS**

Using 2002 data from British Columbia Stats specific to the Fort St John TSA the employment multiplier is approximately 1.44 direct, indirect, and induced jobs per 1000 m<sup>3</sup> of harvest.

**Table 29: Fort St. John TSA employment and employment coefficients**

Forestry Activity	TSA employment (person years)	TSA coefficients (person-years/'000s m <sup>3</sup> )	Provincial employment (person years)	Provincial coefficients (person-years/'000s m <sup>3</sup> )
Harvesting	407	0.22	444	0.24
Silviculture	18	0.01	92	0.05
Processing	629	0.34	703	0.38
Total Direct	1054	0.57	1239	0.67
Indirect & induced	592	0.32	1424	0.77
Total employment	1646	0.89	2663	1.44

Note that the employment estimates are reported in person years based on average 1998-2000 employment levels and the 2017 Fort St John TSA quota harvest of 1,918,148m<sup>3</sup>.

2017 harvest level (based on cut control report in Ind 47) =1,849,294m<sup>3</sup> deciduous and coniferous combined (D=608,306m<sup>3</sup> C=1,240,988m<sup>3</sup>)

Target Achieved	
✓ Yes	No

**REVISIONS**

With the completion of TSR 3, this indicator will need to be reviewed to ensure the TSA coefficients are relevant.



**3.56. MAINTENANCE OF WILDLIFE AND FISHERIES HABITAT VALUES**

Indicator Statement	Target Statement
Conformance to the SFMP indicators and targets pertinent to the maintenance of wildlife and fisheries habitat.	Participants will conform to the identified SFMP indicators and targets pertinent to the maintenance of wildlife and fisheries habitat.
<b>SFM Objective:</b> Recognition of Treaty 8 rights and respect of aboriginal rights through maintenance of landscape level biodiversity	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

Variances provided in the specific indicators will apply.

**CURRENT STATUS AND COMMENTS**

During the period of April 1, 2017 to March 31, 2018 the participants conformed to 6 of 7 (85.6%) of the Ecosystem Diversity and Species Diversity indicators (indicators 2, 3, 5, 6, 7, 8 & 9), targets and acceptable variances. Indicator 9, Wildlife Tree Patch Retention was not met in this annual report period.

The participants conformed to 4 of 4 (100%) of the Water Quality and Quantity indicators (indicators 34, 35, 36 & 37), targets and acceptable variances during this period.

Target Achieved	
Yes	✓ No

**REVISIONS**

There are no revisions proposed for this indicator at this time.

**3.57. NUMBER OF KNOWN VALUES AND USES ADDRESSED IN OPERATIONAL PLANNING**

Indicator Statement	Target Statement
Percentage of known traditional site-specific aboriginal values and uses identified that are addressed in operational plans	100% of known traditional site-specific aboriginal values and uses identified will be addressed in operational plans
<b>SFM Objective:</b> Respect known traditional aboriginal forest values and uses	
Linkage to FSJPPR: N/A	

**Acceptable Variance:** None

**CURRENT STATUS AND COMMENTS**

Between April 1, 2017 and March 31, 2018, opportunity for First Nations to provide information on site-specific values to Canfor & BCTS was available through the formal processes of NIT (notice of intent to treat) communications, the FOS amendment info-sharing process as well as



other formal or informal communication. Assessments by professional archaeologists are another method used by the participants to gather information on site-specific First Nations' values.

Of the 84 Canfor blocks that were permitted, Canfor provided mitigation tables for 39 blocks to address First Nations concerns. All other blocks had no concerns reported to Canfor.

Canfor committed to the use of porta potties rather than dug-out pit toilets on all contracts going forward due to concerns by First Nations.

In addition to this, Canfor conducted a trial to utilize low drift application of aerial discretionary herbicide to target grass specifically, while maintaining expanded buffers alongside standing timber. This strategy was applied to cutblocks 04026 and 04028. Canfor and HRFN representatives flew these sites in 2018, and HRFN was pleased with the retention of browse species.

Canfor also honored the HRFN Critical Community Use Area (CCUA) by ensuring that no blocks were treated with chemical herbicide within this area. 111.9ha of brushing was conducted mechanically as an alternative.

Following a meeting with PRFN representatives, no cutblocks which fell within the 50km PRFN reserve zone were scheduled for aerial brushing. This was requested due to moose populations being a major concern, with the availability of browse being seen as a challenge.

Canfor commissioned 57 Archaeological Overview Assessments (AOA) which identified 10 areas of potential (AOP). From the AOA process, 22 Archeological Impact Assessments (AIA) were commissioned. No new Archeological site were identified from the AIAs and a number of the AOPs were verified as no arch potential.

BCTS did not receive any site specific values or use comments in response to the 2017 Notice of Intent to Treat (NIT) referral distributed to local First Nations.

BCTS commissioned the completion of three archaeological impact assessments (AIA's). One site of archaeological First Nation significance was discovered. This site was removed from the harvesting boundary with the placement in a wildlife tree patch.

100% of known traditional site-specific values and uses identified were addressed in operational plans.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no proposed revisions to the indicator or the target.



Indicator Statement	Target Statement
Compliance with the public review and comment process identified in the FSJ Pilot Project Regulation	100% compliance with the public review and comment processes identified in the FSJ Pilot Project Regulation
<b>SFM Objective:</b> To facilitate a satisfactory public participation process	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

No variances, unless authorized by the Regional Executive Director (MFLNRORD) or his designate.

**CURRENT STATUS AND COMMENTS**

During the reporting period there was one case where the participants were required to follow formal Public Review and Comment Process identified in the *Fort St. John Pilot Project Regulation*. The licensee participants initiated one separate public review regarding amendments to Forest Operations Schedule.

The review and comment period for FOS amendment #324 was between February 26 and May 3, 2018. The amendment proposal was advertised in the Alaska Highway News as well as on FSJ now, in a form acceptable the District Manager of the Ministry of Forests, Lands, and Natural Resource Operations.

The participants are consistent with the target for the Public Review and Comment requirements set out in the Fort St. John Pilot Project Regulation.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no proposed revisions to this indicator or the target.

**3.59. TERMS OF REFERENCE (TOR) FOR PUBLIC PARTICIPATION PROCESSES**

Indicator Statement	Target Statement
Current Terms of Reference (TOR) for the FSJPPR public participation process	Biennial review of the TOR for the FSJPPR public participation process (PAG)
<b>SFM Objective:</b> To facilitate a satisfactory public participation process	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

The TOR will be reviewed at some point every second year (in even years). Due to the timing of meetings, the TOR review may not be in the same month each year.

**CURRENT STATUS AND COMMENTS**

The Public Advisory Group and the Pilot Participants conducted their biennial review of the Terms of Reference during the March 22, 2018 PAG meeting.



The PAG approved an updated TOR on March 22, 2018. The complete Terms of Reference is located on the pilot project website (<http://fsjpilotproject.com>). The next review is scheduled for the spring meeting of 2020.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions proposed for this indicator at this time.

**3.60. PUBLIC INQUIRIES**

Indicator Statement	Target Statement
The percentage of timely responses to Public Inquiries	Respond to 100% of public inquiries regarding Participants' forestry practices, that are additional to the Pilot Public Review and Comment processes, within one month of receipt.
<b>SFM Objective:</b> To facilitate a satisfactory public participation process Relevant information used in decision making process is provided to PAG, general public and affected parties	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

Responses will be provided to all inquiries, provided contact information is provided so that the Participants can reach the person making the inquiry.

**CURRENT STATUS AND COMMENTS**

The participants received ten public inquiries during the reporting period. The nature of the inquiries, and a general summary of response for each, follows below.

During the annual report period Canfor had the following inquiries from members of the public or stakeholders.

- 2 trappers called Canfor to discuss FOS 3.
- 1 trapper contacted a Canfor contractor to discuss active harvesting operations
- 2 trappers called Canfor to discuss brushing treatment plans.
- 4 range tenure holders contacted Canfor to discuss FOS 3
- 3 range tenure holders called Canfor to discuss brushing treatment plans
- 1 range tenure holder contacted Canfor about concerns over impacts to fencing.
- 2 private land owners called Canfor about questions or concerns related to harvesting planned adjacent to their private land.

In all 15 instances, Canfor responded to the inquiry as soon as possible and always within one month of receipt.



BCTS did not receive any public inquiries during the annual report period.

All inquiries received by the participants during the reporting period were responded to within 30 days; therefore, the participants are in conformance with this indicator.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions proposed for this indicator at this time. Note that inquiries related to the FOS, SFMP, or PMP received during established review and comment periods fall under indicator 58, and not measured here.

**3.61. EDUCATIONAL OUTREACH**

Indicator Statement	Target Statement
Number of people to whom information, presentations or field trips provided annually.	Minimum of 40 people provided information, presentations or field trips.
<b>SFM Objective:</b> Develop improved public understanding of SFM	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

None

**CURRENT STATUS AND COMMENTS**

Canfor participated with BCTS in presenting a booth at the 2018 FSJ Trade Show. Over the course of the 3 days of the show, April 6-9, the Participants answered several questions on various forestry related topics. The Participants also gave out over 1,500 seedlings and Canfor and BCTS swag items to people who stopped by our booth.

On Sept 12, 14 and 15, 2017 Canfor sponsored and introduced presentations made by Earth Rangers to 3 local elementary schools. The presentation focused on sustainable management and habitat protection. Approximately 100 students were in attendance at each of the presentations.

On October 11<sup>th</sup> 2017, Canfor employees acted as field workshop leaders in the 2017 Council of Forest Industries (COFI) and School District 60 (SD60) Careers in Natural Resource Management fall field camp for high school students. The sessions focused on the following themes: archeology, soils, ecology, forest protection, timber cruising, and silviculture and highlighted careers in Natural Resource Management.



Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions proposed for this indicator at this time.

**3.62. BRUSHING PROGRAM AERIAL HERBICIDE USE**

Indicator Statement	Target Statement
The number of hectares removed annually from the participants' aerial herbicide plans based on input from First Nations or the public and final treatment layout.	The participants will report annually, the number of hectares removed from the participants' aerial herbicide plans based on input from First Nations or the public and final treatment layout.
<b>SFM Objective:</b> Involve First Nations in review of forest management plans, provide understanding of forest management plans	
<b>Linkage to FSJPPR:</b> N/A	

**Acceptable Variance:**

None.

**CURRENT STATUS AND COMMENTS**

In 2017 the Licensee Participants had originally proposed to aerially herbicide 3941.9 ha as a vegetation management treatment. Based on input received from First Nations, the public and final treatment layout conducted by the participants, the actual aerial herbicide program was reduced to a total of 1151.9 ha actually treated. This reflects that 70.9% of the total area originally planned for treatment was removed from the final treatment area.

In 2017 BCTS had originally proposed to aerially herbicide 333.9 ha as a vegetation management treatment. Based on input received from First Nations, the public and final treatment layout conducted by the participants, the actual aerial herbicide program was reduced to a total of 249.85 ha actually treated. This reflects that 25.2% of the total area originally planned for treatment was removed from the final treatment area





Table 30: Herbicide Area Removal

<b>Number of Hectares Removed Annually From Plan</b>			
<b>Participant</b>	<b>Notification of Intent to Treat (NIT) (hectares)</b>	<b>Post Input from First Nation and Public and Final layout (hectares)</b>	<b>Final Treatment Area Reported (hectares)</b>
BCTS	333.9	326.5	249.8
Canfor	3941.9	1529.5	1151.9
<b>Participants Total</b>	<b>4275.8</b>	<b>1856</b>	<b>1401.7</b>

<b>Target Achieved</b>	
✓ Yes	No

**REVISIONS**

There are no revisions proposed for this indicator at this time.

**3.63 WORKER TRAINING**

<b>Indicator Statement</b>	<b>Target Statement</b>
Percentage of managing participants' employees training that is consistent with training plans.	100% of managing participants' employees will have training consistent with training plans.
<b>SFM Objective:</b> Development of skilled workers	
Linkage to FSJPPR: N/A	

**Acceptable Variance:**

10%. Employees having achieved a minimum of 90% of their training requirements will be considered, as being consistent with their training plans provided there is an action plan in place to complete outstanding training requirements. Action plans to rectify the training deficiencies are to be developed prior to completion of the SFMP annual report.

**CURRENT STATUS AND COMMENTS**

For the purposes of the 2017-18 annual report, it was found that 39 out of 39 Canfor woodland employee records were within the 90% tolerance.

For the purposes of the 2017-18 annual reporting period, it was found that 8 out of 8 (100%) BCTS staff met the training requirements.



Canfor and BCTS are in conformance with the target of this indicator.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions proposed for this indicator at this time.

**3.64 PAG SATISFACTION SURVEYS**

Indicator Statement	Target Statement
Level of satisfaction with the public participation process as measured by PAG surveys.	At least an 80% (average score of 4 out of 5) satisfaction level as measured from PAG surveys.
<b>SFM Objective:</b> Develop satisfaction with the public participation process	
<b>Linkage to FSJPPR:</b> N/A	

**Acceptable Variance:**

- 10%. An average satisfaction level less than 80% will result in follow-up discussions with the PAG to identify opportunities for improving the level of satisfaction with the public participation process.

**CURRENT STATUS AND COMMENTS**

PAG members and advisors were asked to complete an anonymous public participation process satisfaction survey. The results were favorable. The average score for the satisfaction survey was 93%. The satisfaction survey continues to provide insight into areas for future improvement. The participants are in conformance with the target of this indicator.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions proposed for this indicator at this time.

**3.65 AVAILABILITY OF INFORMATION ON ISSUES OF CONCERN**

Indicator Statement	Target Statement
SFM monitoring report made available to the public.	SFM monitoring report made available to public annually.
<b>SFM Objective:</b> Develop improved public understanding of SFM	



**Linkage to FSJPPR:** N/A

**Acceptable Variance:**

- No variance.

**CURRENT STATUS AND COMMENTS**

The 2017 SFM Annual Report was posted to the Fort St. John Pilot project website and to the Canfor external website, for access by the public. Copies of the 2017 SFM Annual Report were also provided to the Fort St. John Public Advisory Group, the MFLNRORD and MOE.

Target Achieved	
✓ Yes	No

**REVISIONS**

No revisions planned.

**3.66 DELETIONS TO FOREST AREA**

Indicator Statement	Target Statement
Percentage of the gross crown forest landbase in the DFA converted to non-forest land use through forest management activities of the participants during the term of SFMP# 3.	Less than 0.6% of the gross crown forest landbase in the DFA will be converted to non-forest land use through forest management activities of the participants during the term of SFMP# 3.
<b>SFM Objective:</b> Sustain forest lands within the participant’s control within the DFA	
<b>Linkage to FSJPPR:</b> N/A	

**Acceptable Variance:**

Additional +0.2%. The acceptable variance of +0.2% is required to provide the Participants flexibility to exceed the 0.6% target in the event that additional permanent road construction is needed to address unforeseen catastrophic forest disturbance events such as wildfires, insect or disease outbreaks, etc.

**CURRENT STATUS AND COMMENTS**

The Timber Supply Review for the Fort St John Timmber Supply Area was completed in May, 2018. The TSR determined that the total area of the Fort St John is 4676602 hectares. Of the total TSA area, about 2,791,340 hectares (58 percent) is classified as productive Crown forest land base (CFLB).



The 2002 timber supply analysis revealed that reductions to the crown forest area managed by the MFLNRORD attributable to existing roads, trails and landings totaled 6,670 ha. This included roads constructed by various industries, including forestry to that point in time.

During the implementation of forest management activities under SFMP# 1 between 2004 and 2010, the participants constructed a total of 1,605.8 km of new road as indicated in Table 31. The Participants assumed an average disturbance width of 20m (for out of block road) and 8m (for in block road) in the calculation of area disturbed due to permanent access construction. This 1,605.8 km of road equates to 3,211.7 ha or 0.12% of the crown forest landbase disturbed by the participants up to and including March 31, 2011.

**Table 31: Road Area Constructed by Managing Participants since 2004 under SFMP # 1**

	2004 (m)	2005 (m)	2006 (m)	2007 (m)	2008 (m)	2009 (m)	2010 (m)	Total (m)	Total (ha)
BCTS	121,435	169,810	71,994	57,873	50,288	33,745	22,281	527,426	1,054.9
Canfor	144,376	177,226	221,155	191,347	126,425	90,483	127,398	1,078,410	2,156.8
<b>Total</b>	<b>265,811</b>	<b>347,036</b>	<b>293,149</b>	<b>249,220</b>	<b>176,713</b>	<b>124,228</b>	<b>149,679</b>	<b>1,605,836</b>	<b>3,211.7</b>

Since the implementation of forest management activities under SFMP# 2, the participants have constructed a total of 1,985.9 kms of new road as indicated in Table 32. The Participants assumed an average disturbance width of 20m in the calculation of area disturbed due to permanent access construction. This 1985.9 km of road equates to 3,971.8ha or 0.142% of the crown forest landbase disturbed by the participants up to and including March 31, 2018. Therefore the participants are in conformance with this indicator.

**Table 32: Road Area Constructed by Managing Participants since 2011 under SFMP # 2**

	2011 (m)	2012 (m)	2013 (m)	2014 (m)	2015 (m)	2016 (m)	2017(m)	Total (m)	Total (ha)
BCTS	26,918	19,547	42,963	81,896	103,967	73555	55983	404,829	809.7
Canfor	234,983	258,571	217,563	164,800	231,137	177502	296508	1,581,064	3,162.1
<b>Total</b>	<b>261901</b>	<b>278118</b>	<b>260526</b>	<b>246696</b>	<b>335104</b>	<b>251057</b>	<b>352491</b>	<b>1,985,893</b>	<b>3,971.8</b>

Target Achieved	
✓ Yes	No

**REVISIONS**

This indicator will be reviewed in light of the new AAC and TSR finalized in 2018.



**3.67 RARE ECOSYSTEMS**

Indicator Statement	Target Statement
Percentage of the area of rare ecosystem groups reserved from harvest.	100% of the area of rare ecosystem groups will be reserved from harvest.
<b>SFM Objective:</b> Maintain the diversity and pattern of communities and ecosystems within a natural range	
<b>Linkage to FSJPPR:</b> N/A	

**Acceptable Variance:**

10% of the total rare ecosystem group forest area may be harvested, where required to construct safe access or in situations where less overall environmental disturbance is created by building access through the rare ecosystem group versus building access to avoid the rare ecosystem group. Based on assessments completed by professionals, those sites deemed poor representations of the rare ecosystem group may be harvested.

**CURRENT STATUS AND COMMENTS**

Monitoring of management performance under indicator # 67 will begin with cut blocks harvested after April 1, 2015.

For blocks with a harvest completion date between April 1, 2017 and March 31, 2018 the participants had the following results:

Canfor had nine blocks with potential rare eco identified in a GIS query. All nine were assessed in the field with no rare ecotypes found.

BCTS had two blocks with potential rare eco identified during the reporting period. These sites were assessed the field and no rare ecotypes were found.

Target Achieved	
✓ Yes	No

**REVISIONS**

There are no revisions proposed for this indicator at this time.



#### 4. SUMMARY OF ACCESS MANAGEMENT

Table 34 represents a summary of access construction activities by participant:

**Table 33: Summary of Participants' Road and Bridge Construction Activities**

Steward	Bridge Construction	New Construction (metres)	Reconstructed or Reactivated (metres)	Surfacing (metres)	Grand Total (metres)
BCTS	0	55,983	6,754	0	62,737
Cameron River	0	338	0	338	338
Canfor Fort St. John	4	295,844	15,850	55,735	320,954
L.P.	0	664	5757	0	6421
Chetwynd Mechanical Pulp	0	0	0	0	0
Dunne Za	0	0	0	0	0
<b>Grand Total</b>	<b>4</b>	<b>352,829</b>	<b>28,361</b>	<b>56,073</b>	<b>390,450</b>

The Licensee Participants and BC Timber Sales access management activities for the period April 1, 2017 to March 31, 2018 are detailed in **Appendix 3**.



## 5. SUMMARY OF TIMBER HARVESTING

**Table 34: Summary of Timber Volume Harvested by Licence in 2017-18**

Participant/Licence	Conifer Licence Volume Harvested (m <sup>3</sup> )	Deciduous Licence Volume Harvested (m <sup>3</sup> )
Canfor - A18154	507,739	
DZ - A56771	181,401	
MPMC - A60972	128,384	
LP - A60049		195,465
PVOSB - A85946		310,417
LP - PA 20		-
Canfor - PA 12		7,866
BCTS	312,324	46,263
<b>Total</b>	<b>1,129,848</b>	<b>560,011</b>

**Appendix 4** contains a table summary of the Participants' timber harvesting activities by area during the reporting period.

## 6. SUMMARY OF BASIC FOREST MANAGEMENT (REFORESTATION)

A summary of the reforestation activities carried out by all participants is included in a variety of Tables within **Appendix 5**. BCTS results are shown separately from other Licensee results.

### Mixedwood Management

The commitment for the term of SFMP# 2 regarding intimate mixtures of conifer and deciduous is to manage intimate mixtures on ten percent of the harvested mixedwood land base as operational trials.

### BCTS

SFMP 1 – Licensees holding BCTS tenures harvested 5,966 ha of forested lands over the time of SFMP #1. Of this area, 2,708 ha was from stands classified by the percentage of net merchantable volume by species as being either conifer leading or deciduous leading mixtures (CD or DC). This equated to an amount of 270.8 ha of harvested area as a minimum commitment to manage towards intimate mixtures. At the end of SFMP 1, BCTS has designated a total of 282.2 ha as intimate mixtures, which is 10.4% of the mixedwood allocation area. This demonstrates achievement of the ten percent target over the term of the SFMP# 1 by BCTS.

SFMP 2 – Licensees holding BCTS tenures harvested 15,224.3 ha of forested lands since the start of SFMP 2 to the end of the 2017 annual reporting period. Of this area, 2284.4 ha was from stands classified by the percentage of net merchantable volume by species as being either conifer leading or deciduous leading mixtures (CD or DC). This equates to an amount of 228 ha of harvested area as a minimum commitment to manage towards intimate mixtures. Currently BCTS has designated a total of 445.5 ha as intimate mixtures, which is 19% of the mixedwood





allocation area. This demonstrates that BCTS is currently managing 9% (or 217.5 ha) above the 10% target over the term of the SFMP.

### **Licensee Participants**

SFMP 1-Licensees harvested 55,079 ha of forested lands over the period of SFMP 1. Of this area, 10884.3 ha was from stands classified by the percentage of net merchantable volume by species as being either conifer leading or deciduous leading mixtures (CD or DC). This equates to an amount of 1088.4 ha of harvested area as a minimum commitment to manage towards intimate mixtures. Currently participants have designated a total of 1312.5 ha as intimate mixtures, which is 12.05% of the mixedwood allocation area. This demonstrates that the licensee tenures are currently 2.05% (or 224.1 ha) above the 10% target over the term of the SFMP.

SFMP 2 – Licensees harvested 29,396.8 ha of forested lands since the start of SFMP 2 to the end of the 2017 annual reporting period. Of this area, 12,646.4 ha was from stands classified by the percentage of net merchantable volume by species as being either conifer leading or deciduous leading mixtures (CD or DC). This equates to an amount of 1264 ha of harvested area as a minimum commitment to manage towards intimate mixtures. Currently participants have designated a total of 1775.6 ha as intimate mixtures, which is 14% of the mixedwood allocation area. This demonstrates that the licensee tenures are currently 4% (or 511.6 ha) above the 10% target over the term of the SFMP.

## **7. INCREMENTAL FOREST MANAGEMENT (STAND TENDING)**

There were no stand tending activities carried out between April 1, 2017 and March 31, 2018.



**8. SUMMARY OF ANY VARIANCES GIVEN**

The following is a summary of variances given for licensee participants between April 1, 2017 and March 31, 2018. No variances were given or received in the period.

**Table 35: List of Variances**

Licence	FOS Blk # or Location	Regulatory Requirement	Description of Variance	Date Approved

**9. COMPLIANCE**

**9.57. CONTRAVENTIONS REPORTED**

The licensee participants identified 1 potential contravention during the reporting year and the licensee participants reported that potential contravention to government agencies (MFLNRORD). The potential contravention was related to a buncher trespass.

Licensee participants were notified of 2 potential non-compliances by government agencies (MFLNRORD) between April 1, 2017 and March 31, 2018 related to appraisals. After an investigation, the potential non-compliances were downgraded to compliance notices.

BCTS had 2 potential contraventions in the period between April 1, 2017 and March 31, 2018. These contraventions were related to unauthorized activity around a pipeline and a feller buncher trespass.

A description of the potential contraventions reported is located in **Appendix 6**.

**9.58. COMPLIANCE AND ENFORCEMENT MEASURES IMPOSED BY THE GOVERNMENT UNDER PART 6 OF THE ACT**

There were no compliance and enforcement penalties imposed or measures taken on licensee participants by the Government under Part 6 of the Forest Practices Code of B.C. Act for activities completed between April 1, 2017 and March 31, 2018.

There were no compliance and enforcement penalties imposed or measures taken on BCTS by the Government under Part 6 of the Forest Practices Code of B.C. Act between April 1, 2017 and March 31, 2018.

Any compliance and enforcement penalties imposed or measures taken on the Managing Participants can be found in **Appendix 6**.



## 10. AMENDMENTS TO FDP'S OR FOREST OPERATIONS SCHEDULE

The following table is a summary of amendments for which notice was not required to be published, that were made from April 1, 2017 to March 31, 2018.

**Table 36: Summary of FOS Amendments with No Publication Requirement (Apr1/17-Mar 31/18)**

Plan	Licence	Amendment ID	Date	Block / Road	Amendment Description	MOF Notified of Change
FOS	Canfor	286	April 3, 2017	01187	Transfer block to PA12	April 3, 2017
FOS	Canfor	287	April 5, 2017	06085	Proposed road changes	April 5, 2017
FOS	Canfor	288	April 17, 2017	01109, 01110, 01111, 04208, 04209, 04210, 04211	Combine blocks: to make 04211 managed under A18154	April 17, 2017
FOS	BCTS	289				
FOS	Canfor	290	May 16, 2017	45049	Proposed road changes	May 16, 2017
FOS	Canfor	291	May 23, 2017	01216	Proposed road changes	May 23, 2017
FOS	Canfor	292	May 25, 2017	04093	Transfer block to PA 20	May 25, 2017
FOS	BCTS	293				
FOS	Canfor	294	May 30, 2017	24037 and 24300	Merge blocks into 27037	May 30, 2017
FOS	Canfor	295	June 27, 2017	45034, 45049, 45056, 45069	Transfer blocks to A85946	June 27, 2017
FOS	Canfor	296	July 5, 2017	02311	Proposed road changes	July 5, 2017
FOS	BCTS	297				
FOS	Canfor	298	July 24, 2017	19036	Proposed road changes	July 24, 2017
FOS	Canfor	299	July 24, 2017	19027, 19028	Proposed road changes	July 24, 2017
FOS	Canfor	300	July 26, 2017	05144, 05145 & 05155	Transferred blocks to A18154. Split 05145 into two blocks. The 2 <sup>nd</sup> block is now 05155	July 26, 2017
FOS	Canfor	301	August 10, 2017	24037, 24333	Merged blocks into 24037	August 10, 2017



Plan	Licence	Amendment ID	Date	Block / Road	Amendment Description	MOF Notified of Change
FOS	Canfor	302	August 4, 2017	04243	Proposed road changes	August 4, 2017
FOS	Canfor	303	August 15, 2017	24310, 24309	Merged blocks into 24310	August 15, 2017
FOS	Canfor	304	August 15, 2017	24309, 24303	Proposed road changes	August 15, 2017
FOS	Canfor	305	August 16, 2017	45034	Split into two blocks 45034 & 45069	August 16, 2017
FOS	Canfor	306	August 21, 2017	04092, 04030	Relocate road	August 21, 2017
FOS	Canfor	307	August 24, 2017	24329, 24330, 24331, 24332, 24333, 24336 & 24337	Merged into block 24333	August 24, 2017
FOS	BCTS	308				
FOS	Canfor	309	August 25, 2017	02274, 02275	Transfer blocks to A18154	August 25, 2017
FOS	Canfor	310	August 27, 2017	10025, 10028, 10029	Transfer blocks to A18154	August 27, 2017
FOS	Canfor	311	August 27, 2017	10025	Proposed road changes	August 27, 2017
FOS	Canfor	312	August 28, 2017	23115	Transferred block to A56771	August 28, 2017
FOS	Canfor	313	August 31, 2017	06058, 06130	Split 06058 into two blocks	August 31, 2017
FOS	Canfor	314	September 12, 2017	24303, 19307, 24308	Transferred blocks to A18154	September 12, 2017
FOS	Canfor	315	September 22, 2017	19025, 19100	Split 19025 into two blocks	September 22, 2017
FOS	BCTS	316				
FOS	Canfor	317	October 2, 2017	04260	Transferred block to A18154	October 2, 2017
FOS	Canfor	318	October 2, 2017	04092, 04102, 04120, 04243	Transfer blocks to A60049	October 2, 2017
FOS	Canfor	319	November 6, 2017	29109, 01268, 02312	Transfer blocks to A56771	November 6, 2017
FOS	Canfor	320	November 6, 2017	45095, 45102	Split 45095 into two blocks	November 6, 2017
FOS	Canfor	321	November 13, 2017	19024, 19039	Transfer blocks to A18154	November 13, 2017
FOS	Canfor	322	November 28, 2017	07081, 07084, 07085	Transfer blocks to A56771. Split block 07085 into two blocks. The new block number is 07135	November 28, 2017
FOS	BCTS	323				
FOS	Canfor	325	December 14, 2017	04278	Transfer block to A56771	December 14, 2017



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Plan	Licence	Amendment ID	Date	Block / Road	Amendment Description	MOF Notified of Change
FOS	Canfor	326	December 14, 2017	04278, 04281	Split block 04278 into two blocks. New block number is 04281	December 14, 2017
FOS	Canfor	327	December 14, 2017	04073	Transfer block to A18154	December 14, 2017
FOS	Canfor	328	December 15, 2017	04073, 04072, 04074	Merged blocks into one. New block name 04073	December 15, 2017
FOS	Canfor	329	December 20, 2017	02280, 02309, 02312	Transferred blocks to PA 12	December 20, 2017
FOS	Canfor	330	December 28, 2017	01268, 01270	Transferred blocks to PA 12	December 28, 2017
FOS	Canfor	331	January 11, 2018	02177, 02306, 02308, 02334, 02312, 02328,	Transferred blocks to PA 12, A56771 & A18154. Merged blocks 02177 & 02328 into one block. Merged 02312 & 02334 into one block	January 11, 2018
FOS	Canfor	332	January 16, 2018	07085, 07135	Split 07085 into two blocks	January 16, 2018
FOS	Canfor	333	January 19, 2018	07081, 07085, 07135, 07052,	Proposed road changes	January 19, 2018
FOS	Canfor	334	February 9, 2018	01325, 03126, 01327, 01328, 05081, 05082, 05083, 05089 & 05090	Merged blocks	February 9, 2018
FOS	Canfor	335	February 9, 2018	43051	Transferred block to PA 12	February 9, 2018
FOS	Canfor	336	February 20, 2018	07086, 07138, 07023, 07101, 07105, 07137, 07053, 07136	Split blocks, Transferred block license to PA 12 and A18154, proposed road changes	February 20, 2018
FOS	BCTS	337				
FOS	Canfor	338	March 12, 2018	01300, 01301	Merged blocks into one block	March 12, 2018
FOS	Canfor	339	March 22, 2018	01312, 04281	Transferred blocks to A60972	March 22, 2018

The following is a summary of major amendment made from April 1, 2017 to March 31, 2018 that did go through the formal public review process.

**Table 37: Summary of FOS Amendments with Publication Requirement (Apr1/17-Mar 31/18)**

<u>Plan</u>	<u>Licence</u>	<u>Amendment ID</u>	<u>Date</u>	<u>Block / Road</u>	<u>Amendment Description</u>	<u>MOF Notified of Change</u>



FOS	Canfor	324	February 26, 2018	51 new blocks (2852.1 ha) to address Spruce Bark Beetle Salvage and 13 new or redesigned roads, and 16 maintenance items over 10 different operating areas.	February 26, 2018
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No other major amendments were processed during the annual reporting period (April 1, 2017 to March 31, 2018).



## **11. LANDSCAPE LEVEL STRATEGY IMPLEMENTATION**

The landscape level strategies (LLS) provide the strategic direction to the participants' plans and operations.

The *Fort St. John Pilot Project Regulation* (FSJPPR) specifies the regulatory content of the SFMP. A sustainable forest management plan at a minimum must include landscape level strategies for all of the following:

- timber harvesting,
- road access management,
- patch size, seral stage distribution and adjacency,
- riparian management,
- visual quality management,
- forest health management, and
- range and forage management.

The SFMP# 2 also includes a Landscape Level Reforestation Strategy and a Soil Management strategy.

The FSJPPR also requires the participants to ensure that each strategy contained in the plan specifies the performance indicators for evaluating whether or not the strategy has been successfully implemented. The participants will regularly review each of these indicators for appropriateness and evaluate performance and progress towards the associated targets.

A summary of these reviews and any proposals for change will be reported in the SFMP annual reports. The targets will be managed within the continuous improvement process as described in section 3.4 of the SFMP.

Following is a summary of the landscape level strategies and related performance indicators, (as identified in Table 8 of the SFMP) approved by the regional manager (MFLNRORD) and regional director (MOE) are:



**Table 38: Landscape Level Strategies and Related Performance Indicators**

SFMP # 2 Landscape Level Strategy	Performance Indicators		
	Affecting Part 3 Division 5 of the FSJPPR (Indicator #) <sup>22</sup>	For Evaluation of LLS - Sec 42 of FSJPPR (Indicator #) <sup>23</sup>	Additional - not for regulatory approval (Indicator #)
4.1 Timber Harvesting	N/A	18,19, 20, 21, 50, 51,52	27, 48, 53
4.2 Road Access Management	24	24, 45	40
4.3 Riparian Management	7, 22	7, 22, 34, 36	
4.4 Range and Forage Management	N/A	10, 42	41
4.5 Patch Size, Seral Stage Distribution and Adjacency	6, 9	2, 3, 6, 9	
4.6 Forest Health Management	N/A	1, 2, 3, 25, 49	26
4.7 Reforestation	13, 29	13, 28, 29, 30	14
4.8 Soil	N/A	4	
4.9 Visual Quality Management	44	44	

Following is a summary of the degree to which the participants achieved the indicators linked to each of the landscape level strategies:

### **Timber Harvesting Strategy**

**Harvesting Strategy #1:** Timber harvesting within the Crying Girl LU and the portion of the Graham LU that falls within the Graham River valley will be based on sequential clustered development. Operational harvest activities will be concentrated in one 'cluster' during a harvesting season to minimize costs, and to minimize the extent of industrial disturbance to wildlife. The total extent of allowable harvesting area will be consistent with the GRIMP harvest schedule. Exceptions to this that may be required to address abnormal forest health and damaging events will be reviewed with the PAG and government agencies prior to conducting activities.

**Indicator #18 - Graham Harvest Timing (3.18):** No harvesting occurred in the reporting period in the Graham. The participants were within the targeted number of clusters for harvest, and therefore in compliance with this indicator.

**Indicator #19 - Graham Merchantable Area Harvested (Section 3.19):** The first reporting period finished in April 2007. The total area harvested in the first reporting period was 3,516 ha,

<sup>22</sup> Includes indicators related to both Sec35(5) and Sec35(6) of FSJPPR

<sup>23</sup> Indicators 2 (Seral Stage) and 3 (Patch Size) are Performance Indicators for both Strategy 4.5 and 4.6



while the maximum allowable harvest for the period was 3,638 (which had been amended downward from 3,869 ha as a result of transferring block 11058 from cluster 4 to cluster 6, as noted in the 2005-2006 Annual Report). The second reporting period ended in April 2012. The third period concluded April 2017. The fourth period will conclude April 2022. Since the beginning of period 2 to date of preparation of this report, no harvesting has occurred in the Graham. The participants are therefore consistent with the indicator's targeted range.

**Harvesting Strategy #2:** The Forest Connectivity Corridors that are identified in the Graham River IRM Plan area provide substantial connectivity for wildlife throughout the Plan area. Operational plans will respect the long-term primary components of these connectivity corridors. To ensure consistency with the original objectives of the GRIMP, government agencies will be consulted and their agreement obtained prior to proposing harvesting activities in any portion of the permanent corridors.

**Indicator #20 - Graham Connectivity (Section 6.20):** No new harvesting occurred in the Graham in the 2017-2018 reporting period. The participants are in conformance to this indicator's target and allowable variance. As well, GIS coverage was used as an overlay during the development of the FOS to ensure consistency of future blocks with this indicator.

**Harvesting Strategy #3:** Long term harvest plans will be prepared depicting the approximate location of blocks and roads, to address key wildlife and road access issues for one or more drainages within the MKMA. These plans will be submitted to government and the public for review and comment prior to inclusion of any new proposed blocks in any FOS or similar plan.

**Indicator #21 - MKMA Harvest (Section 3.21):** Harvesting and associated road construction was previously completed in three grand parented blocks (20007, 20008, and 20060). No other activity has occurred in the MKMA, so the participants are consistent with the indicators related to this strategy. No harvesting occurred in the MKMA during the annual report period.

**Timber Harvesting Strategy #4:** Participants will plan harvesting activities in a manner that supports the maintenance of the current Allowable Annual Cut over the term of the SFMP, balancing economic considerations with the management assumptions included in the current AAC determination (TSRII) rationale.

**Indicator #51 - Timber Profile - Deciduous (Section 3.52):** During the development of Forest Operations Schedule #3, a substantial amount of deciduous-leading area was identified for harvest in Supply Block F – 4,558.6ha

**Indicator #52 - Timber Profile – Coniferous (Section 3.52):** The first 5-year period expired March 31, 2006. The participants' harvesting for that five-year period was 5.0% in height class two pine stands, which, while below the target of 8%, was equal to the minimum acceptable level of 5.0%. The next calculation of this indicator will occur at the end of the next five-year harvest period. It was recognized that achievement of this target in the current five-year period April 1, 2007- March 31, 2011, would be negatively impacted by the large-scale salvage harvesting programs currently implemented to address the mountain pine beetle infestation. Accordingly, the variance for this period was revised to 0% at the March 6, 2008 Fort St. John Public Advisory Group meeting to provide flexibility to address the urgent forest health issue.

Very little new harvesting occurred in height class II pine stands during the second period in order to concentrate harvest activity on mountain pine beetle infested areas. During the 2011-2016 reporting period Canfor harvested 189.6 ha in height-class two pine inventory types of a total



conifer stand type area of 31,542.9 ha harvested (1.4%) and BCTS harvested 169.1 ha in height-class two pine inventory types out of a total conifer stand type area of 4187.4 ha harvested (4.0%). The combined conifer harvest in height class 2 pine stands for the 2011 – 2016 reporting period is 2.0% (358.7 ha out of a total of 17,730.3 ha harvested).

The next 5 year period started April 1 of 2016. To date, the Managing Participants have harvested 36.9ha in Height Class II pine types which equates to 0.4% of the conifer harvest area. With a variance of 0%, the participants are within the variance for this indicator.

**Harvesting Strategy #5:** Support sustainable harvest levels by managing cut control levels and timber sale volumes sold that are consistent with the approved apportioned volumes within the TSA.

**Indicator #53 - Cut Control (Section 6.53):** This end of the monitoring period identified for indicator 53 was December 31, 2015. The licensee six-year cumulative target for coniferous cut control volume is 4,609,744 m<sup>3</sup>. The actual harvested coniferous volume at the end of the period was 3,983,909 m<sup>3</sup> (90% of the cumulative target).

The licensee six-year target cumulative deciduous cut control volume is 5,826,260 m<sup>3</sup>. The actual harvested volume for the period is 2,537,525 m<sup>3</sup> (43.6% of the cumulative target).

The BCTS six-year target cumulative coniferous allotment volume is 2,864,854m<sup>3</sup>. The actual volume offered for sale in the reporting period was 1,870,823 m<sup>3</sup> (65.4% of the cumulative target).

The BCTS six-year target cumulative deciduous allotment volume is 1,386,000m<sup>3</sup>. The actual volume offered for sale in the reporting period was 560,053 m<sup>3</sup> (40% of the cumulative target).

The target for this indicator was met at the end of the last monitoring period.

The next cut control monitoring period will be January 1, 2016 – Dec 31, 2021. The results of the period will be presented at the time.

**Harvesting Strategy #6:** Participants will coordinate the planning of forestry operations to achieve business efficiencies, facilitate analyses of cumulative forest management impacts in relation to SFMP strategies, and provide consolidated information sharing and consultation products to interested parties in a Forest Operations Schedule.

**Indicator #50 - Coordination (Section 3.50):** The participants completed and submitted a coordinated FOS in 2010-11, and continued to coordinate and collaborate on FOS 3 and FOS 2 amendments, therefore meeting the target for this indicator.

**Harvesting Strategy #7:** Identify suitable areas for summer and fall harvesting, and maintain deliveries during this time period sufficient to meet processing plant fibre requirements, while meeting environmental objectives.

**Indicator #48 - Summer/Winter volumes (Section 3.48):** Targets were met for both the coniferous sawmill and the OSB mill during the summer and fall of the reporting period.



**Harvesting Strategy #8:** Even-aged silviculture systems such as clearcuts, or clearcuts with reserves, will be the predominant silviculture systems employed, as these systems most closely parallel the even aged forests that result from natural disturbance events in the TSA. Where other resource values are particularly high, small patch or strip cuts may be proposed to maintain non-timber resource values, while allowing for some timber utilization. Modified shelterwoods will be employed in deciduous logging to protect coniferous understorey on an operational trial basis, consistent with the reforestation strategy.

**Indicator #27 - Silviculture Systems (Section 3.27):** The participants met the target for this indicator; during the reporting period, even aged silviculture systems were used exclusively.

**Timber Harvesting Strategy Summary:** The participants conformed to all **seven (100%) legal indicators**, and 3 of 3 non legal indicators (100%) used to quantify conformance to the timber harvesting strategies.

### **Road Access Management Strategy**

**Road Access Management Strategy #1:** The percentage of permanent access structures may vary significantly within cutblocks, depending on block size, terrain, season, and the need to address other resource features. The revised field performance requirement, identified in the 2004 SFMP, will continue unchanged. Permanent Access Structure % will be assessed on a DFA-wide basis, rather than block-by-block, using three year rolling average measure expressed as a percent value. The value will be less than the original regulatory field performance requirement.

**Indicator #24 - Permanent Access Structures (Section 3.24):** Licensee participant's current permanent access structures area is at 4.62%, BCTS is at 3.2%, the participants combined PAS is 3.7%, therefore the participants are consistent with the target for this indicator.

**Road Access Management Strategy #2:** Forest industry road access in the Sikanni, Graham and Crying Girl LU's will be planned to maintain over time the primitive ROS class at 1996 levels, and maintain a component of semi-primitive non motorized ROS classes.

**Indicator #45 - Recreation Opportunity Spectrum (Section 3.45):** As no logging occurred in this area since 2007, the current status remains consistent with the target range for this indicator. As well, projections of proposed roads and blocks from the FOS# 3 indicate that harvest plans will allow future activities through 2018 to be consistent with achieving these targets.

**Road Access Management Strategy #3:** Participants will communicate and provide the opportunity for forest industry access management plans to be shared with the oil and gas sector through the Oil and Gas Commission. This includes providing critical forest industry road construction standards so that the forest industry road specifications can be linked with those of the oil and gas sector. Forest industry access plans encompassing all of the Participants' activities will be clearly identified within the Forest Operations Schedule (FOS). By making this information well known and easily available to the oil and gas sector, coordinated infrastructure developments within common operating areas can be implemented, thus eliminating duplicate



entries and thereby reducing the amount of forest land converted to non-forest conditions and minimizing the negative impacts on other resources.

**Indicator #40 - Coordinated Developments (Section 3.40)** - The participants proposed changes to 36 of the 208 referrals received from Oil and Gas, to either coordinate development, or otherwise minimize impacts to the timber harvesting land base. The oil and gas company proponents agreed to implement many of these proposed changes. Participants noted that in many referrals oil and gas activities were already designed to reduce impacts to the timber harvesting land base. Licensee participants issued 259 Road use agreements to oil and gas companies.

**Road Access Management Strategy Summary:** The participants conformed to the **two (100%) legal indicators**, and **1 of 1 (100%) non legal indicators** used to quantify conformance to the access management strategies.

### **Patch Size, Seral Stage Distribution and Adjacency Strategy**

The general strategy implemented in the SFMP is to approximate the pattern, distribution and structure of natural disturbance events (primarily fire), consistent with information provided by Delong (2002).

#### **Seral Stage Distribution Strategy**

The seral stage distribution strategy is summarized in **Indicator #2 - Seral Stage (Section 3.2)**, where targets and timelines for achieving late seral stages for deciduous leading and coniferous leading stands, by NDU are presented. Where harvesting is proposed in areas falling below thresholds, there are requirements to spatially identify recruitment areas in Forest Operations Schedule.

The seral stage analyses conducted in 2016 to identify the current condition of the indicator and to identify the future condition of the indicator, assuming all blocks in FOS# 3 are harvested by 2025, identified that the participants' activities are in conformance with the requirements of this indicator. To date of preparation of this report, a significant amount of FOS 2 blocks remain unharvested.

#### **Patch Size Strategy**

The patch size distribution targets for early and mature patches for the duration of the SFMP are outlined in **Indicator #3 - Patch Size (Section 3.3)**. The patch size analyses conducted in 2017 to identify the current condition of the indicator and to identify the future condition of the indicator assuming all blocks in FOS# 3 are harvested by 2025, identified that the participants' activities are in conformance with the requirements of this indicator.

In FOS# 3 harvesting is proposed only in two of the of the ten NDU patch size combinations where the desired patch size distribution is not achieved by 2025. Of the two NDUs where harvesting is proposed, the patch targets are achieved in 4 of 6, or 67%, of the relevant patch size NDU combinations. In the 2 NDU patch size combination where harvesting does not achieve the desired patch size distribution, it must be noted that a slight improvement over the baseline condition (2010 condition) is achieved. This demonstrates a trend to moving toward achieving the desired patch size distribution over the course of implementation of FOS# 3. Participants are



in conformance with the target of having 9/18 baseline targets for early patches. The results of the FOS 3 analysis showed 12/18 baseline targets met.

### **Forest Structure and Adjacency**

Indicators that measure the structure characteristics of natural disturbance patterns are Coarse Woody Debris and Wildlife Tree Patches.

#### **Indicator #6 - Coarse Woody Debris (Section 3.6):**

The current reporting period is December 1, 2016 - November 30, 2022. So far in this reporting period 7 CWD plots have shown 62.4m<sup>3</sup>/ha of CWD retained on harvested blocks. The participants are in conformance to this indicator.

**Indicator #9 - Wildlife Tree Patches (Section 3.9):** have cumulative targets by LU for harvesting initiated after November 15, 2001. The participants' activities are currently consistent with the targets for 10 of the 11 LU's where harvesting has occurred. **Consequently, the participants are not in conformance with the target for this indicator.**

### **Adjacency**

The strategies and indicators that deal with patch size, patch shape and seral stage distribution control both the amount and spatial distribution of the forested land base affected by forest management. The combined functions of managing for both early and mature patch sizes controls where harvesting can occur as well as what is left as intact mature forest over time. The seral stage indicator controls the amounts of the various age groups. The patch size indicators address both the size and shape of patches at the landscape level and over time. The CWD and Wildlife Tree Patch indicators provide structure within or adjacent to harvested areas. These processes manage the structural characteristics and the temporal and spatial distribution of forest patches such that a separate adjacency indicator strategy is not necessary.

**Seral Stage Distribuion Strategy Summary:** The participants conformed to the targets for **3 of 4 (75%) legal indicators** used to quantify conformance to the patch size, seral stage distribution and adjacency strategy.

### **Riparian Management Strategy**

**Riparian Management Strategy #1:** Forestry operations adjacent to fish bearing S1, S2 and S3 streams will minimize negative effects on water quality by maintaining regulatory riparian reserve zones that meet or exceed the minimum widths included in Schedule D of the FSJPPR.

**Indicator #7 - Riparian Reserves (Section 3.7):** This is an indicator of progress related to maintaining riparian reserves as proposed by this strategy. The participants were in conformance to the target for this indicator during the reporting period.

**Riparian Management Strategy #2:** Qualified personnel will conduct assessments of streams that do not have mandatory reserve zones. Site-specific management practices will be incorporated into SLP's to protect streambanks, stream channel stability, and riparian vegetation, water quality, and other riparian values.





**Indicator #36 - Protection of Stream banks and Riparian Values on Small Streams (Section 3.36):** During the 2017 reporting period the participants (Canfor) had one instance of non-conformance to SLP riparian management measures; this is within the acceptable target variance. The participants were therefore in conformance with the target for this indicator during the reporting period.

**Riparian Management Strategy #3:** Plans developed for harvesting within the riparian corridors of major rivers will provide for a high level of forest retention for wildlife habitat, with new patch openings normally being one hectare or less in size within 100 metres of the rivers' Riparian Reserve Zone. A variety of silviculture systems can potentially be used to achieve this, including clearcut with reserves and partial cutting systems, employing methods such as strip cuts or patch cuts.

**Indicator #22 - River Corridors (Section 3.22):** During the reporting period, no block harvest or road construction activities were conducted in major river corridors by Canfor or BCTS. The participants' activities are therefore consistent with the target for this indicator.

**Riparian Management Strategy #4:** Excessive runoff at the watershed level, which can disturb stream channel integrity and adjacent habitats, will be managed by limiting the extent of harvesting within watersheds, as determined through peak flow index analyses

**Indicator #34 - Peak Flow Index (Section 3.34):** The participants are consistent with the target for this indicator. No non-conformances to this indicator were identified to have taken place during this reporting period.

As part of the preparation of Forest Operations Schedule #3, a DFA-wide analysis of watersheds was conducted. The analysis determined the impact of FOS #3 to each watershed's peak flow index, by modelling both the impact of the participants' total proposed harvest and the projected growth of forest stands. The analysis showed that all watersheds (104 of 105, 99%) are within the target threshold for peak flow upon completion of all harvest activities proposed in FOS#3 in 2025.

**Riparian Management Strategy Summary:** The participants conformed to the target or acceptable variance for 4 of the 4 (100%) legal indicators used to quantify conformance to the riparian management strategy.

### **Visual Quality Management Strategy**

**Visual Quality Strategy #1:** All forest operations carried out in scenic areas covered by an established visual quality objective (VQO) will be consistent with the objective, and in scenic areas without established VQO's all forest operations will be designed using appropriate visual design techniques to minimize visual impacts.

**Indicator #44 - Visual Quality Objectives (Section 3.44):** measures whether activities were consistent with VQO's during the reporting period, and is used to quantify conformance to the visual quality management strategy. The participants (Canfor and BCTS) completed 27 of 27 required





assessments during the reporting period. The completed assessments concluded the VQO's were achieved on all 27 blocks.

**Visual Quality Management Strategy Summary:** The participants did conform to the target or acceptable variance for the one (100%) legal indicator used to quantify conformance to the visual quality management strategy.

### **Forest Health Management Strategy**

**Forest Health Strategy #1:** To minimize the potential of catastrophic forest health events, the participants will apply the principles of Integrated Forest Health Management in the planning and implementation of forestry activities.

Indicators, strategies and implementation details for maintaining ecological processes are included in indicators dealing with **Forest Types (Indicator #1, Section 3.1), Seral Stage (Indicator #2, Section 3.2), and Patch Size (Indicator #3, Section 3.3) and Indicator #26 Salvage**. The participants are in conformance with the target for each of these indicators.

**Forest Health Strategy #2:** The Participants will identify potential forest health issues within their silviculture obligation areas (harvested blocks), and prioritize those that may have a significant impact on forest resources. Within their silviculture obligation areas, the Participants will detect and monitor significant forest health agents in a timely manner, and, where potential impacts are significant, implement cost effective treatment controls where practical.

**Indicator #25 - Forest Health (Section 3.25):** the participants' activities were consistent with the targets for this indicator. Surveys conducted on obligation areas during the reporting period identified minor incidences of forest health damaging agents, primarily vegetation press, ungulate browse, and Cooley spruce gall adelgid, Western Gall Rust, Apsen Twig Blight, frost and hare browse.

**Forest Health Strategy #3:** Where practical, prioritize harvesting of conifer blocks to those areas that are most susceptible to prevalent significant and/or catastrophic forest health damaging agents.

**Indicator #49 - Forest Health FOS Planning (Section 3.49):** 15% of conifer blocks identified in FOS 3 are pine leading. The participants are in conformance with this indicator or the variance.

**Forest Health Strategy Summary:** The participants' activities conformed to the target or acceptable variance for 4 of 5 (100%) legal indicators and 1 of 1 (100%) non legal indicators used to quantify conformance to the forest health strategy.



## **Range and Forage Management Strategy**

**Range and Forage Management Strategy # 1:** The Participants will ensure range improvements damaged as a result of Participants' activities are restored to their pre-harvest condition in a timely manner, or as otherwise agreed to between the range tenure holder and Participant.

**Indicator #42 - Damage to Range Improvements (Section 3.42):** In this reporting period the participants damaged no range improvements. Consequently the participants are consistent with the indicator's target.

**Range and Forage Management Strategy # 2:** The participants will implement measures for grass seeding activities to minimize the risk introduction or spread of invasive plants due to forest management activities.

**Indicator #10 - Noxious Weed Content (Section 3.10):** All reclamation seed broadcast by the licensee participants and BCTS licensees during the reporting period is certified as having 0% content of prohibited and primary noxious weeds, and known invasive weed species of concern, as identified in the Sustainable Forest Management Plan. The participants were consistent with the targeted range for this indicator.

**Range and Forage Management Strategy #3:** The Participants will endeavor to create and implement mutually agreed action plans (T.R.A.P.s) with range tenure holders that address forage and forest management overlap issues and other concerns, over the areas identified in the current Forest Operations Schedule.

**Indicator #41 - Range Action Plans (Section 3.41):** is the indicator which shows progress on this strategy. There was no mutually agreed specific action required to be completed and no Timber Range Action Plan (TRAP) was developed (signed) by the participants during the reporting period. Participants' operations were 100% consistent with the mutually agreed upon action plans for range during the reporting period.

**Range and Forage Management Summary:** The participants conformed to the target or acceptable variance **for 2 of 2 legal indicators**, and 1 of 1 (100%) non legal indicators used to quantify conformance to the range and forage management strategy.

## **Reforestation Strategy**

A) Discrete areas within cutblocks will be assigned an initial forest type designation (conifer, deciduous, or mixedwood). Applicable reforestation standards (coniferous, deciduous, or intimate mixedwood standard) that apply to each area will be tied to stocking standard ID's, which correspond to conifer, deciduous, or mixedwood stocking standards (i.e. declarations). These ID's will be submitted into the MFR tracking system (e.g. RESULTS). Changes to stocking standard designations within cutblocks may occur prior to final assessment, and will be revised in RESULTS.



B) Timely establishment of new forests is important to support timber production objectives, and will be assessed based on the average length of time to establish trees on harvested sites.

C) Flexibility in the intensity of silviculture treatments will be used to enhance landscape level timber production, while allowing natural variability in stand development. This will be enabled by assessing reforestation success based on a cumulative 'landscape level' assessment of the area from each year's logging. Assessments will be completed separately for all deciduous and all coniferous declarations, based on a comparative measure of projected future volume production.

The strategy includes the following components:

1. Assigning Reforestation Standards to areas within cutblocks
2. Landscape Level Assessment of Reforestation
3. Stocking Standards and Crop Tree Requirements
4. Silviculture Performance Indicators

The Reforestation strategy has the following key features to:

- Set standards for reforestation to provide restocking of harvested areas.
- Provide a landscape level assessment of reforestation success for *coniferous and deciduous leading stands*, based on a comparative measure of future volume.
- Ensure that Professional Foresters will have professional accountability at the cut block level to vary regimes and provide for other values as they progress to a landscape level target for volume.
- Allow continuous improvement by providing feedback on landscape level reforestation success. Silviculture regimes and/or corrective action can be considered across the landscape and implemented in a cost effective manner that considers all values being managed.

Traditionally, reforestation success has not been measured at a landscape level. This strategy extends beyond previous practices and provides an additional measure to assure adequate management and conservation.

This strategy applies to all area harvested after November 15, 2001, under the FSJPPR. Participants may elect to include areas harvested under prescription between 1987 and November 15, 2001. A statement of election to include areas must be made in writing to the District Manager.

**The following 4 indicators measure performance to the overall reforestation strategy of the participants:**

**Indicator #13 - Coniferous Seed (Section 3.13):** measures conformance to the Chief Foresters Standards for Seed Use. 100% of seedlings planted by the participants were in conformance with the Chief Foresters Standards for Seed Use. The participants are in compliance with the indicator.

**Indicator #28 - Species Composition (Section 3.28):** measures the progress participants make in retaining relative consistent species composition between pre and post harvest operations on the landscape. The planted species percentages are within 20% of the cruise species percentages and therefore the participants are within the acceptable variance for this indicator and target.

**Indicator #29 - Reforestation Assessment (Section 3.29):** provides a landscape level assessment of reforestation success for *coniferous leading and deciduous leading stands*, based on a comparative measure of future volume. The participants are in compliance with this indicator.



**Indicator #30 - Establishment Delay (Section 3.30):** provides a broad view of the average amount of time being taken to confirm establishment of a new forest on conifer leading, deciduous leading and mixedwood harvested areas. BCTS and the licensee participants achieved the target for conifer, deciduous and mixed wood establishment delay. The participants are in compliance with this indicator.

**Indicator #14 - Aspen Regeneration (Section 3.14):** – ensures that reforestation of deciduous stands utilizes natural regeneration to ensure that the regenerated stand is genetically suitable for the site. The Participants are in conformance with this indicator.

**Reforestation Strategy Summary:** The participants conformed to **4 of the 4 legal indicator targets (100%)** and 1 of 1 (100%) non legal indicators that measure conformance with the reforestation strategy.

### **Soil Management Strategy**

**Soil Management Strategy #1:** The Participants will implement measures that ensure operations are conducted in a manner that addresses the inherent sensitivity of a site to soil degrading processes.

**Indicator #4 - Soil Disturbance (Section 3.4):** measures whether detrimental soil disturbance occurred during harvesting or reforestation activities on cutblocks. There were no incidents of detrimental soil disturbance reported by the participants during the reporting period.

**Soil Management Strategy Summary:** The participants conformed to **1 of the 1 (100%) of the legal indicators** that measure conformance to the soil management strategy.



## **Appendix 1: Fort St. John LU's and RMZ's**





### **Fort St. John Landscape Units (LU's) and Resource Management Zones (RMZ's)**

Landscape Units (LU) are based on updated Biogeoclimatic Ecosystem Classification (BEC) mapping, ecosection boundaries, Natural Disturbance Units (NDU's) and important administrative boundaries such as the revised district boundaries and the strategic land use boundaries of the Muskwa-Kechika Management Area. In the absence of an administrative boundary, resource features such as main stem rivers (midpoint) or height of land were used wherever possible to provide logical natural boundaries for each LU. These boundaries often encompass multiple watersheds in mountainous terrain, and reflect similar BEC units, ecosections and Natural Disturbance Units.

The current LU boundaries are consistent with strategic boundaries and their respective objectives at the LRMP Resource Management Zone (RMZ) level, and allow the administrative areas to be managed without overlapping LU boundaries and fragmenting objectives during implementation.

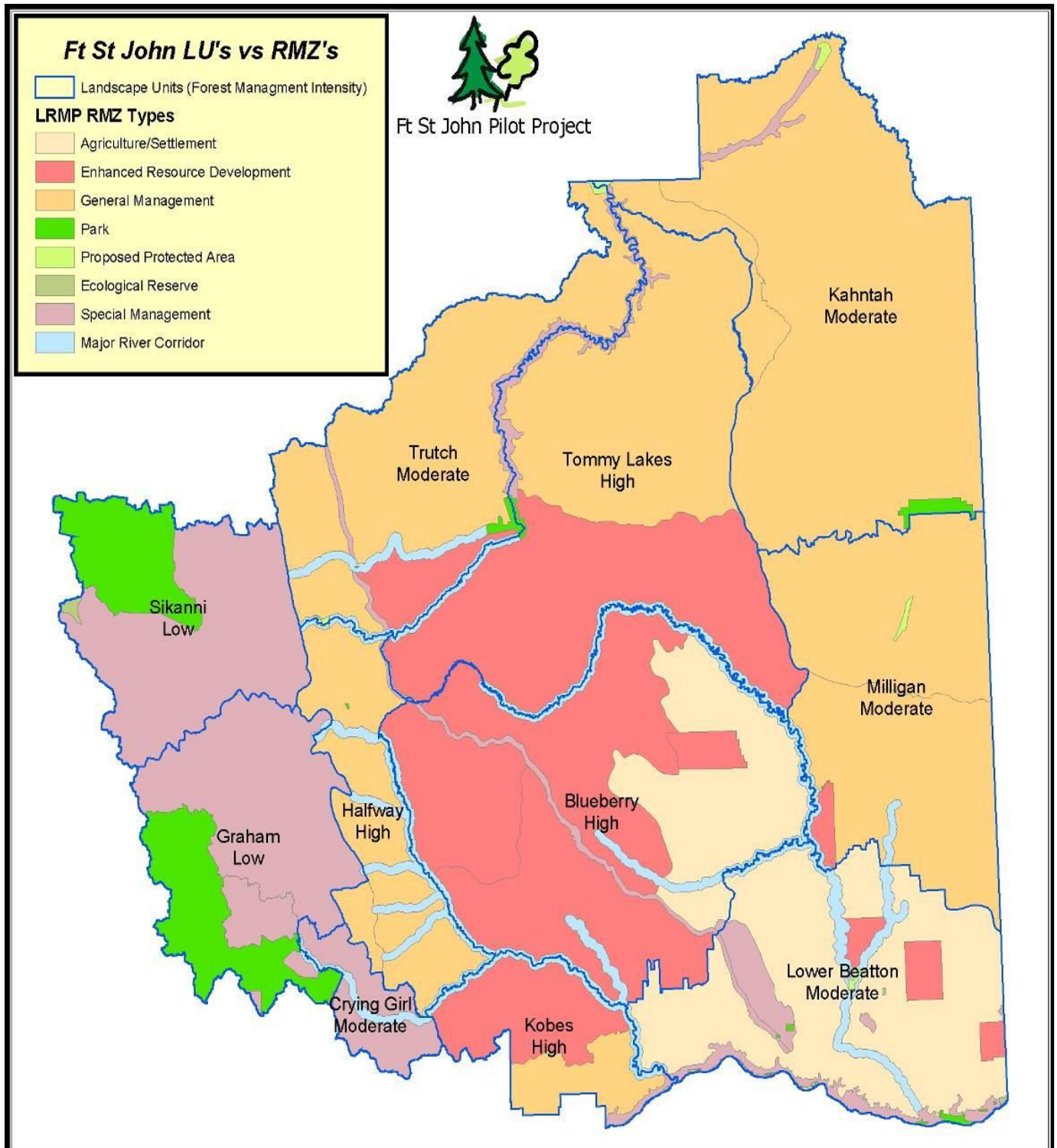


Figure 13: Fort St. John LU's and RMZ's





## **Appendix 2: CSA Sustainable Forest Management Matrix**





**47.0 CSA Matrix<sup>24</sup> Fort St. John Pilot Project SFM Matrix (Effective Feb 7, 2018)**

CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator	Target	
CCFM Criterion 1 – Conservation of Biological Diversity						
Conserve biological diversity by maintaining integrity, function and diversity of living organisms and the complexes of which they are part, including ecological elements that contribute to cultural values						
<b>Element 1.1 – Ecosystem Diversity</b> Conserve ecosystem diversity at the stand and landscape level by maintaining the variety of communities and ecosystems that naturally occur in the DFA. Establish forest plantations only in afforestation projects.	<b>Ecosystem Diversity</b>	<b>Maintain the diversity and pattern of communities and ecosystems within a natural range</b>	<b>1.1.1 – Ecosystem area by type.</b>	67 – Rare Ecosystems	Percentage of the area of rare ecosystem groups reserved from harvest	100% of the area of rare ecosystem groups will be reserved from harvest
				17 – Representative Examples of Ecosystems	Percentage of area of forest stands in an unmanaged condition, by leading species, by NDU	100% of baseline targets for forested stands in an unmanaged condition, by leading species, by NDU will be met
			<b>1.1.2 – Forest area by type or species composition.</b>	1 – Forest Types	Percent distribution of forest type (deciduous, deciduous mixedwood, conifer mixedwood, conifer) >20 years old by landscape unit	All forest type groups by landscape unit will meet or exceed the minimum area percentage in table 9
				28 – Species Composition	Relative change in plantation composition versus harvest composition for spruce and pine	The relative proportion of spruce and pine planted annually will equal the proportions harvested annually (excluding fill planting)

<sup>24</sup> matrix number reflects the PAG meeting at which it was approved.



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
			<b>1.1.3 – Forest Area by seral stage or age class.</b>	2 – Seral Stage	The minimum proportion (%) of late seral forest by NDU	The minimum proportion (%) of late seral forest by NDU as identified in table 11 will be met
				3 – Patch Size	Percent area by Patch Size Class (0-50, 51-100, and >100 ha) by NDU	A minimum of 9 of 18 of the baseline targets for early patches will be achieved during the term of this SFMP
			<b>1.1.4 – Degree of within-stand structural retention.</b>	5 – Snags / cavity Sites	Number of snags and/or live trees (>23 cm dbh) per ha on prescribed areas	Retain annually an average of at least 6 snags and/or live trees (>23cm dbh) per hectare on prescribed areas
				9 – Wildlife Tree Patches	Cumulative Wildlife Tree Patch percentage in blocks harvested under the FSJPPR in each Landscape Unit	Cumulative Wildlife Tree Patch % will meet or exceed the minimum target in each LU (Blueberry 9%, Halfway 6%, Kahntah 5%, Kobes 8%, Lower Beatton 3%, Milligan 4%, Tommy Lakes 8%, Trutch 5%, Sikanni 4%, Graham 4%, Crying Girl 3%)
<b>Element 1.2 – Species Diversity</b> Conserve species diversity by ensuring that habitats and forest conditions for the native species found in the DFA are maintained through time, including habitats for known	<b>Species Richness</b>	<b>Suitable habitat elements for indicator species. Maintain habitats for species at risk</b>	<b>1.2.1 – Degree of habitat protection for selected focal species, including species at risk.</b> ----- <b>1.2.2 – Degree of suitable habitat in the long term for selected focal species,</b>	5 – Snags / Cavity Sites	See indicator # 5	
				6 – Coarse Woody Debris Volume	Average retention level of Coarse Woody Debris volume/ (m <sup>3</sup> /ha) on blocks logged in the DFA between December 1, 2016 and November 30, 2022	Average retention level over the DFA will be at least 46 m <sup>3</sup> /ha (50% of average pre-harvest volume) on harvested blocks assessed between December 1, 2016 and November 30, 2022



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
occurrences of species at risk.			including species at risk.	7 – Riparian Reserves	The number of non-compliances to riparian reserve zone standards	No non-compliances to riparian reserve zone standards
				8 – Shrubs	The proportion of shrub habitat (%) by Landscape Unit	Each landscape unit will meet or exceed the baseline target (%) proportion of shrub habitat
				9 – Wildlife Tree patches	See indicator # 9	
				11 – Species at Risk Stand Level Management Guidelines	The percentage of SLP's prepared annually for 'effected' cutblocks that incorporate one or more stand level species at risk management guidelines	100% of SLPs prepared annually for effected cutblocks will incorporate one or more species at risk management guidelines
				16 – Ungulate Winter Ranges, Wildlife Habitat Areas & MKMA	Proportion of activities consistent with the objectives of the Muskwa-Kechika Management Area (MKMA), and general wildlife measures for Ungulate Winter	All pilot Participant activities will be consistent with the objectives of the MKMA, and general wildlife measures for Ungulate Winter Ranges and Wildlife Habitat Areas
				17 – Representative Examples of Ecosystems	See indicator # 17	
			<b>1.2.3 – Proportion of regeneration</b>	10 – Invasive Plants / Noxious Weeds	The % prohibited and primary noxious weeds,	Seed mix analyses will have 0% content of prohibited and primary



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
			comprised of native species.		and known invasive weed species of concern, in seed mix analysis	noxious weeds and known invasive plants, as identified in the most current publication of: "Listing of Invasive Plants", available from the Peace River Regional District
				13 – Coniferous Seeds	The percentage of seedlings and vegetative material used and planted in accordance with the Chief Forester's Standards for Seed Use (Nov.20, 2004) as amended from time to time	100% of seedlings and vegetative material will be used and planted in accordance with the Chief Forester's Standards for Seed Use (Nov.20, 2004), as amended from time to time
				14 – Aspen Regeneration	% natural regeneration of deciduous	100% natural regeneration for deciduous
<b>Element 1.3 – Genetic Diversity</b> Conserve genetic diversity by maintaining the variation of genes within species and ensuring that reforestation programs are free of genetically engineered trees	<b>Genetic Diversity</b>	<b>Conserve genetic diversity of tree stock</b>	<b>Non-Core</b>	13 – Coniferous Seeds	See indicator # 13	
				14 – Aspen Regeneration	See indicator # 14	



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
<p><b>Element 1.4 – Protected areas and sites of special biological, geological, heritage or cultural significance</b> Respect protected areas identified through government processes. Co-operate in broader landscape management related to protected areas and sites of special biological or cultural significance. Identify sites of special biological, geological, heritage, or cultural significance within the DFA, and implement management strategies appropriate to their long-term maintenance.</p>	<p><b>Protect areas and Conservation Emphasis areas, for example Special Management Zones, Ecological Reserves, etc</b></p>	<p><b>To have representative areas of naturally occurring and important ecosystems and rare physical environments protected at both the broad and site-specific levels across or adjacent to the DFA.</b></p> <p><b>Management strategies address important values in SMZ areas</b></p>	<p><b>1.4.1 –Protection of sites of special significance.</b> ----- <b>1.4.2 – Proportion of identified sites with implemented management strategies.</b></p>	15 – Class A Parks, Ecological Reserves & LRMP Designated Protected Areas	Hectares of forestry related harvesting or road construction within Class A parks, protected areas, ecological reserves, or LRMP designated protected areas	Zero hectares of forestry related harvesting or road construction within Class A parks, protected areas, ecological reserves, or LRMP designated protected areas
				16 – Ungulate Winter Ranges, Wildlife Habitat Areas & MKMA	See indicator # 16	
				17 – Representative Examples of Ecosystems	See indicator # 17	
				18 – Graham Harvest Timing	The number of clusters in the Graham IRM Plan area where active operational harvesting is concurrently occurring	Operational harvesting within the Graham IRM Plan area will be constrained to no more than 1 'cluster' of cutblocks at any one time
				19 – Graham Merch Area	Cumulative merchantable area (hectares) within blocks harvested in the Graham IRM Plan area since 1997	The cumulative merchantable area (hectares) within harvested blocks will not exceed the planned maximum cumulative harvest areas, as measured at the end of each time period: Period 2 (April 2012): 6569 ha; Period 3 (April 2017): 9355 ha; Period # 4 (ending April 2022): 10,858 ha



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
				20 – Graham Connectivity	Area (hectares) harvested in cutblocks in the Graham IRM area, within the permanent alluvial and non-productive/non-commercial components of the connectivity corridors	Zero hectares harvested within cutblocks in the permanent alluvial and non-productive/non-commercial components of the connectivity corridors
				21 – MKMA harvest	The number of long term harvest plans within the MKMA completed and submitted to government	A minimum of one long-term harvest plan submitted no later than 1 year following government approval of a landscape unit objective under the MKMA Act, that applies to the Fort St. John TSA portion of the MKMA
				22 – River Corridors	The percentage of harvested areas that create openings greater than 1 hectare within 100 metres of RRZ's in identified major river corridors	No openings exceeding 1 hectare in blocks within the major river corridors harvested under the FSJPPR (i.e. after November 15, 2001)
				57 – Number of known Values and Uses addressed in Operational Planning	Percentage of known traditional site-specific aboriginal values and uses that are addressed in operational plans	100% of known traditional site-specific aboriginal values and uses identified will be addressed in operational plans





CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator	Target	
<b>CCFM Criterion 2 – Maintenance and Enhancement of Forest Ecosystem Condition and Productivity</b>						
Conserve forest ecosystem condition and productivity by maintaining the health, vitality, and rates of biological production.						
<p><b>Element 2.1 – Forest Ecosystem Condition and Productivity</b>                      Conserve forest ecosystem productivity and productive capacity by maintaining ecosystem conditions that are capable of supporting naturally occurring species. Reforest promptly and use tree species ecologically suited to the site.</p>	<b>Ecosystem Resilience / Ecosystem Productivity</b>	<p><b>Maintain a natural range of variability in ecosystem function, composition and structure with allows ecosystems to recover from disturbance and stress. Ecosystem functions capable of supporting naturally occurring species exist within the range of natural variability.</b></p> <p><b>Maintain or enhance landscape level productivity.</b></p>	<b>2.1.1 – Reforestation success.</b>	<p>25 – Forest Health</p>	<p>Percentage of silviculture obligation areas with significant detected forest health damaging agents which have treatment plans developed for them</p>	<p>100% of silviculture obligation areas with significant forest health damaging agents will have treatment plans developed for them, and initiated within 1 year of detection</p>
				<p>27 – Silviculture Systems</p>	<p>Percentage of area harvested annually using even aged silviculture systems</p>	<p>Even aged silviculture systems will be employed on at least 80% of the total area harvested annually in the DFA</p>
				<p>28 – Species Composition</p>	<p>See indicator 28</p>	
				<p>29 – Reforestation Assessment</p>	<p>Predicted Merchantable Volume (PMV) (cubic meters) coniferous and separate deciduous surveyed areas. See indicator #2</p>	<p>Predicted Merchantable Volume will meet or exceed the Target Merchantable Volume (TMV). The TMV is set at 95% of the Maximum Predicted Merchantable Volume attainable on coniferous areas. The TMV is set at 90% of the Maximum Predicted Merchantable Volume attainable on deciduous areas</p>



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
				30 – Establishment Delay	Establishment Delay (years)	The area weighted average establishment delay for coniferous regeneration will not exceed two years. The area weighted average establishment delay for deciduous regeneration will not exceed three years. The area weighted average establishment delay for mixedwood stands regeneration will not exceed three years
			<b>Non-Core</b>	2 – Seral Stage	See indicator # 2	
				9 – Wildlife Tree Patches	See indicator # 9	
				24 – Permanent Access Structures	Percentage of the total area in Managing Participants' cutblocks occupied by permanent access structures, in which harvesting was completed	A maximum of 5% of the total area in Managing Participants' cutblocks occupied by permanent access structures in which harvesting was completed, as determined on a 3 year rolling average
				26 – Salvage	The relative proportion of area of merchantable fire-damaged stands salvaged within a management intensity class	The relative proportions of salvage will be highest in the high intensity zones, and lowest in the low intensity zones over the SFM Plan period (April 1, 2016 - March 31, 2022)
				49 – Forest Health FOS Planning	Percentage of new conifer-leading harvest blocks in	A minimum of 50% of new conifer-leading harvest blocks in the



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator	Target
					the 2017 FOS that are pine-leading 2017 FOS will be pine-leading
		<b>2.1.2 – Proportion of regeneration comprised of native species.</b>	13 – Coniferous Seeds	See indicator #13	
			14 – Aspen Regeneration	See indicator #14	
			28 – Species Composition	See indicator #28	
		<b>2.1.3 – Additions and deletions to the forest area.</b>	24 – Permanent Access Structures	See indicator # 24	
			40 – Coordinated Developments	Number of coordinated developments	Report annually the number of proposed coordinated developments that occurred
			66 – Deletions to Forest Area	Percentage of gross crown forest landbased in the DFA converted to non-forest land use through forest management activities of the participants during the term of SFMP #3	Less than 0.6% of the gross crown forest landbase in the DFA will be converted to non-forest land use through forest management activities of the participants during the term of SFMP #3
		<b>2.1.4 – Proportion of the calculated long-term sustainable harvest level that is actually harvested.</b>	25 – Forest Health	See indicator # 25	
			31 – Long Term Harvest Level	Long-term harvest level (LTHL) as measured in cubic metres per year (m <sup>3</sup> /yr)	We will propose an Allowable Annual Cut (AAC) that sustains the LTHL of the Defined Forest Area (DFA)



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
				32 – Site Index	Site index	Average post harvest site index will not be less than average pre-harvest site index on blocks harvested under the pilot project regulation
				53 – Cut Control	Percentage of total Allowable Annual Cut (AAC) charged to licensee tenure holders or BCTS Participants during the term of the SFMP	Jan 1 2016 - Dec 31 2021: Industry Participants: -Not to exceed 110% of the combined cumulative coniferous AAC for the 6 year period, -Not to exceed 110% of the combined cumulative deciduous AAC for the 6 year period. BCTS Participant: -Not to exceed 110% of the combined cumulative coniferous commitment offered for sale for the 6 year period, -Not to exceed 110% of the combined cumulative deciduous commitment offered for sale for the 6 year period



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator	Target	
<b>CCFM Criterion 3 – Conservation of Soil and Water Resources</b>						
Conserve soil and water resources by maintaining their quantity and quality in forest ecosystems.						
<b>Element 3.1 – Soil Quality and Quantity</b> Conserve soil resources by maintaining soil quality and quantity	<b>Soil Productivity</b>	<b>Protect soil resources to sustain productive forests</b>	<b>3.1.1 – Level of Soil Disturbance.</b>	4 – Soil Disturbance	Number of blocks with non-conformances to soil disturbance limits reported annually by Managing Participant	Zero blocks will have non conformances to soil disturbance limits
			<b>3.1.2 – Level of downed woody material.</b>	32 – Site Index	See indicator # 32	
				6 – Coarse Woody Debris Volume	See indicator # 6	
<b>Element 3.2 – Water Quality and Quantity</b> Conserve water resources by maintaining water quality and quantity	<b>Water Quantity</b>	<b>Maintenance of water quantity</b>	<b>3.2.1 – Proportion of watershed or water management areas with recent stand-replacing disturbance.</b>	34 – Peak Flow Index	The percentage of watersheds achieving baseline targets for the peak flow index and the percent of watershed reviews completed where the baseline target is exceeded	95% or more of the watersheds will be below the baseline target. All watersheds that exceed the baseline target will have a watershed review completed wherever new harvesting is planned
		<b>Maintenance of water quality</b>	<b>3.2.2 – Proportion of forest management activities, consistent with prescriptions to protect identified water features.</b>	7 – Riparian Reserves	See indicator # 7	
				35 – Water Quality Concern Ratings	The percentage of surveyed stream crossings annually identified with a high WQCR rating on forestry roads within the DFA for which participants have stewardship (*WQCR – water quality concern rating)	On an annual basis, fewer than 30% of the total number of surveyed stream crossings on roads for which the participants have stewardship will have 'High' WQCR



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
				36 – Protection of Stream banks and Riparian Values of Small Streams	The number of annual non-conformances to SLP measures related to protecting stream bank, stream channel stability and riparian vegetation from harvesting or silviculture activities	No non-conformances to SLP measures related to protecting stream bank, stream channel stability and riparian vegetation from to harvesting or silviculture activities
				37 – Spills Entering Water Bodies	Number of spills of a reportable substance (i.e. antifreeze, diesel fuel, gasoline, greases, hydraulic oil, lubricating oil, methyl hydrate, paints and paint thinners, solvents, pesticides, and explosives) entering water bodies	Zero spills entering water bodies



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator	Target	
<b>CCFM Criterion 4 – Forest Ecosystem Contributions to Global Ecological Cycles</b>						
Maintain forest conditions and management activities that contribute to the health of global ecological cycles.						
<b>Element 4.1 – Carbon Uptake and Storage</b> Maintain the processes that take carbon from the atmosphere and store it in forest ecosystems.	<b>Carbon Uptake and Storage</b>	<b>Maintenance of the processes for carbon uptake and storage</b>	<b>4.1.1 – Net Carbon Uptake.</b>	24 – Permanent Access Structures	See indicator # 24	
				29 – Reforestation Assessment	See indicator # 29	
				30 – Establishment Delay	See indicator # 30	
				38 – Carbon Sequestration Rate	Maintenance of DFA Average carbon sequestration rates	Maintain DFA average carbon sequestration rates that are consistent with or greater than natural sequestration rates
				39 – Ecosystem Carbon Storage	The percentage of ecosystem carbon stored in the Fort St. John DFA relative to projected natural levels	Maintain ecosystem carbon storage at a minimum of 95% of projected natural storage levels
				<b>4.1.2 – Reforestation Success. (2.1.1 – Reforestation Success)</b>	See indicators # 25, 27, 28, 29, 30 (related to CSA z809-08 Core Indicator 2.1.1 above)	
<b>Element 4.2 – Forest Land Conversion</b> Protect forest lands from deforestation. Encourage afforestation where ecologically appropriate.	<b>Forest Land Base</b>	<b>Sustain forest lands within our control within the DFA</b>	<b>4.2.1 – Additions and deletions to the forest area. (2.2.1 - Additions and deletions to the forest area)</b>	See indicators # 24, 40, 55 (related to CSA z809-08 Core Indicator 2.2.1 above)		



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator	Target	
<b>CCFM Criterion 5 – Multiple Benefits to Society</b>						
Sustain flows of forest benefits for current and future generations by providing multiple goods and services.						
<b>Element 5.1 – Timber and Non-Timber Benefits</b> Manage the forest sustainably to produce a mix of timber and non-timber benefits. Support a diversity of timber and non-timber forest products and forest-based services.	<b>Timber and Non-Timber Multi-use Benefits</b>	<b>Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities</b>	<b>5.1.1 – Documentation of the diversity of timber and non-timber resources, including products and services produced in the DFA.</b>	18 – Graham Harvest Timing	See indicator # 18	
				19 – Graham Merch Area	See indicator # 19	
				21 – MKMA harvest	See indicator # 21	
				31 – Long Term harvest Level (Timber)	See indicator # 31	
				41 – Range Action Plan	Percent consistency with mutually agreed upon action plans for range	Operations 100% consistent with resultant range action plans
				42 – Damage to Range Improvements	Number of range improvements damaged by Participants' activities	Zero range improvements damaged by Participants' activities
				43 – Recreation Sites (Non - Timber)	The number of recreation sites maintained by Participants	Participants will maintain a minimum of one recreational site within the DFA
				44 – Visual Quality Objectives	Consistency with Visual Quality Objectives (VQO's)	Pilot Participants' forest operations will be consistent with the established VQO's





CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
				45 – Recreation Opportunity Spectrum	Area in primitive and semi-primitive non-motorized classifications of the Recreation Opportunity Spectrum (ROS) for the Graham, Sikanni and Crying Girl LU's	A minimum of 65,839 ha in primitive ROS area (100% of 1996 primitive ROS area) and 180,726 ha in semi primitive non-motorized ROS area (50% of the 1996 total semi primitive NM ROS area) in the combined Graham, Crying Girl and Sikanni LU's (excluding the Graham Laurier and Redfern-Kelly PA's)
				46 – Actions Addressing Guides, Trappers, and Other Interests	Percentage of operations consistent with mutually agreed upon action plans for guides, trappers and other known non-timber commercial interests	100% of operations will be consistent with action plans for guides, trappers and other non-timber commercial interests
				47 – Timber processed in the DFA (Timber)	Volume of timber processed in the DFA in proportion to volume harvested in the DFA	The annual equivalent of a minimum of 70% of the DFA's harvest is primary processed in the DFA
				48 – Summer and Fall Volume Deliveries	See Indicator # 48	
			<b>Non – Core</b>	51 – Timber Profile - Deciduous (Timber)	The area(ha) of deciduous leading cutblocks identified in Supply Block F for harvest during the term of the SFMP	A minimum of 200 ha of deciduous leading cutblocks located in Supply Block F will be identified for harvest during the term of the new SFMP



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
				52 – Timber Profile - Coniferous (Timber)	The percentage of the total cutblock area in harvested blocks that was identified as preharvest height-class two pine inventory types	April 1, 2006 - March 31st, 2011: 8% or more of the total coniferous cutblock area harvested by managing Participants during the 5-year period will be in height-class two pine inventory types. April 1, 2011- March 31st, 2016: 8% or more of the total coniferous cutblock area harvested by managing Participants during the 5-year period will be in height-class two pine inventory types. April 1, 2016- March 31, 2022: 8% or more of the total coniferous cutblock area harvested by managing Participants during the 5-year period will be in height-class two pine inventory types.
				53 – Cut Control (Timber)	Percentage of total Allowable Annual Cut (AAC) charged to licensee tenure holders or BCTS Participants during the term of the SFMP.	Jan 1 2016 - Dec 31 2021: <u>Industry Participants:</u> -Not to exceed 110% of the combined cumulative coniferous AAC for the 6 year period -Not to exceed 110% of the combined cumulative deciduous AAC for the 6 year period



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
						<p><u>BCTS Participant:</u>                      -Not to exceed 110% of the combined cumulative coniferous commitment offered for sale for the 6 year period                      -Not to exceed 110% of the combined cumulative deciduous commitment offered for sale for the 6 year period</p>
			<p><b>5.1.2 — Evidence of open and respectful communications with forest dependent businesses, forest users and local communities to integrate non-timber resources into forest management planning. When significant disagreement occurs, efforts towards conflict resolution are documented.</b></p>	23 – Value and Total Number of contracts Awarded to First Nations	See Indicator # 23	
				41 – Range Action Plan	See indicator # 41	
				46 – Actions Addressing Guides, Trappers, and Other Interests	See Indicator # 46	
				47 – Timber Processed in the DFA	See Indicator # 47	
				54 – Dollars Spent Locally on Each Woodlands Phase	See indicator # 54	
				55 – Direct and Indirect Employment	See Indicator # 55	
				68 – Effective Communication – Non Timber Resources	Evidence of communication and consideration of non-timber resources into	100% of non-timber resource values, identified through communication, have been responded to and



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
<b>Element 5.2 – Communities and Sustainability</b> Contribute to the sustainability of communities by providing diverse opportunities to derive benefits from forests and by supporting local community economies.	<b>Sustainable and Viable Communities</b>	<b>Maintain viable timber processing facilities in the DFA. No decrease in the LTHL in the DFA</b>	<b>5.2.1 – Level of participation and support in initiatives that contribute to community sustainability.</b>		forest management planning	considered and may be accommodated in forest management plans
				47 – Timber Processed in the DFA	See Indicator # 47	
				48 – Summer and Fall Volume Deliveries	Volume of timber (m <sup>3</sup> ) delivered annually to wood processing facilities within the Fort St. John Defined Forest Area (DFA) wood processing facilities between May 1st and November 30th	Minimum of 100,000 m <sup>3</sup> to conifer mills in the DFA, Minimum of 185,000 m <sup>3</sup> to deciduous mills in the DFA
				50 – Coordination	Percentages of SFMP's and FOS's prepared jointly by the Participants	100% of all SFMP's and FOS's will be jointly prepared by the Participants
				51 – Timber Profile - Deciduous	See indicator # 51	
				52 – Timber Profile - Coniferous	See Indicator # 52	
				54 – Dollars Spent Locally on each Woodlands Phase	Percentage of dollars spent locally on each woodlands phase in proportion to total expenditures	Woodlands Phases to be monitored: Logging/hauling: minimum of 80% Road construction and maintenance: minimum of 80%



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target	
						Silviculture: minimum of 5%	
						Planning and administration: minimum of 50%	
				55 – Direct and Indirect Employment	Level of direct and indirect employment	Report the current level of direct and indirect employment expressed as a factor of harvest level times employment multiplier	
				Non – Core	31 – Long Term Harvest Level	See Indicator # 31	
					53 – Cut Control	See Indicator # 53	
				Fair Distribution of Benefits and Costs	Development of Skilled Workers	5.2.2 – Level of participation and support in training and skills development.	63 – Worker Training
	12 – Forest Workers Safety	Implementation and maintenance of certified safety program	Each managing participant will implement and maintain a certified safety program				
	5.2.3 – Level of direct and indirect employment.	48 – Summer and Fall Volume Deliveries	See Indicator # 48				
		54 – Dollars Spent Locally on Each Woodlands Phase	See Indicator # 54				
		55 – Direct and Indirect Employment	See Indicator # 55				



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target	
<b>CCFM Criterion 6 – Accepting Society’s Responsibility for Sustainable Development</b>							
Sustainable forest management includes society’s responsibility for worker and community safety, and the requirement for fair, equitable, and effective forest management decisions.							
<p><b>Element 6.1 – Fair and effective decision-making / Information for decision-making</b>                      Demonstrate that SFM public participation process is designed and functioning to the satisfaction of the participants and that there is general public awareness of the process and its progress.</p> <p>Provide relevant information and educational opportunities to interested parties to support their involvement in the public participation process, and increase knowledge of ecosystem processes and human interactions with forest ecosystems.</p>	<p><b>Opportunity for Public Participation</b></p>	<p><b>To facilitate a satisfactory public participation process. To develop satisfaction with the public participation process</b></p>	<p><b>6.1.1 – Level of participant satisfaction with the public participation process.</b></p>	59 – Terms of Reference (TOR) for the Public Participation Process	Current Terms of reference (TOR) for the FSJPPR public participation process	Biennial review of the TOR for the FSJPPR public participation process (PAG)	
				64 – PAG Satisfaction Surveys	Level of satisfaction with the public participation process as measured by PAG surveys	At least an 80% (average score of 4 out of 5) satisfaction level as measured from PAG surveys	
	<p><b>Information for Decision-making</b></p>		<p><b>Relevant information used in the decision making process is provided to PAG, general public, and affected parties</b></p>	<p><b>6.1.2 – Evidence of efforts to promote capacity development and meaningful participation in general.</b></p>	41 – Timber Range Action Plans	See Indicator # 41	
					46 – Actions Addressing Guides, Trappers, and Other Interests	See indicator # 46	
					58 – Regulatory Public Review and comment Process	Compliance with the public review and comment process identified in the FSJ Pilot Project Regulation	100% compliance with public review and comment processes identified in the FSJ Pilot Project Regulation
					59 – Terms of Reference (TOR) for the Public Participation Process.	See Indicator # 59	
					60 – Public Inquiries	The percentage of timely responses to public inquiries	Respond to 100% of public inquiries regarding Participants’ forestry practices, that



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
						are additional to the Pilot Public Review and Comment processes, within one month of receipt
				61 – Educational Outreach	Number of people to whom information, presentations, or field trips provided annually	Minimum of 40 people provided information, presentations, or field trips
				64 – PAG Satisfaction Surveys	See Indicator # 64	
			6.1.3 – Availability of summary information on issues of concern to the public.	60 – Public Inquiries	See Indicator # 60	
				65 – Availability of Information on Issues of Concern	SFM Monitoring report made available to the public	SFM monitoring report made available to the public annually
<b>Element 6.2 – Safety</b> Demonstrate that the organization is providing and promoting safe working conditions for its employees and contractors.	<b>Contribute to Worker and Public Safety. Communities Participate in the Use and Management of the Forest</b>	<b>Provide a safe work environment for DFA forestry workers and the public. Diverse local forest employment opportunities exist in the DFA</b>	<b>6.2.1 – Evidence of co-operation with DFA - related workers to improve and enhance safety standards, procedures, and outcomes in all DFA-related workplaces and affected communities.</b>	12 – Forest Workers Safety	See Indicator # 12	
			<b>6.2.2 – Evidence that a worker safety program has been implemented and is periodically reviewed and improved</b>	63 – Worker Training	See Indicator # 63	



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator	Target
CCFM Criterion 7 – Aboriginal Relations					
Recognize and respect the unique rights and values of Aboriginal Peoples					
<b>Element 7.1 – Aboriginal and Treaty Rights</b> Recognize and respect Aboriginal title and rights, and treaty rights. Understand and comply with current legal requirements related to aboriginal title and rights, and treaty rights.	<b>Aboriginal and Treaty Rights</b>	<b>Recognition of Treaty 8 rights and respect of aboriginal rights through maintenance of landscape level biodiversity</b>	<b>7.1.1 – Evidence of a good understanding of the nature of Aboriginal title and rights.</b>	33 – First Nations Consultation & Information Sharing	Percentage of affected First Nations invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's)  100% of affected First Nations will be invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's)
			7.1.2 — Evidence of ongoing open and respectful communications with Aboriginal communities to foster meaningful engagement, and consideration of the information gained about their Aboriginal title and rights through this process. Where there is communicated disagreement regarding the organization's forest management activities, this evidence would	56 – Maintenance of Wildlife and Fisheries Habitat	Conformance to the SFMP indicators and targets pertinent to the maintenance of wildlife and fisheries habitat  Participants will conform to the identified SFMP indicators and targets pertinent to the maintenance of wildlife and fisheries habitat
			7.1.2 — Evidence of ongoing open and respectful communications with Aboriginal communities to foster meaningful engagement, and consideration of the information gained about their Aboriginal title and rights through this process. Where there is communicated disagreement regarding the organization's forest management activities, this evidence would	33 – First Nations Consultation & Information Sharing	Percentage of affected First Nations invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's)  100% of affected First Nations will be invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's)
			7.1.2 — Evidence of ongoing open and respectful communications with Aboriginal communities to foster meaningful engagement, and consideration of the information gained about their Aboriginal title and rights through this process. Where there is communicated disagreement regarding the organization's forest management activities, this evidence would	69 – Effective Communication – Aboriginal Communities	Evidence of ongoing communication with Aboriginal communities and consideration of information gained  100% of information on aboriginal titles and rights, identified through on-going communication with Aboriginal communities, has been





CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
			include documentation of efforts towards conflict resolution.			responded to and considered and may be accommodated in forest management planning
<b>Element 7.2 – Respect for Aboriginal Forest Values, Knowledge and Uses</b> Respect traditional Aboriginal forest values, knowledge, and uses as identified through the Aboriginal input process.	<b>Aboriginal Forest Values, and Uses</b>	<b>Respect known traditional aboriginal forest values and uses. Involve First Nations in review of forest management plans, provide understanding of forest management plans. Provide opportunities for First Nations to participate in forest economy.</b>	<b>7.2.1 — Evidence of efforts to promote capacity development and meaningful participation for Aboriginal individuals, communities and forest-based companies.</b>	23 – Value and Total Number of contracts Awarded to First Nations	Value and total number of contracts awarded annually to First Nations	Report the annual total value and number of contracts awarded to companies or groups owned or operated by First Nations
				33 – First Nations Consultation & Information Sharing	See Indicator # 33	
				57 – Number of Known values and Uses Addressed in Operational Planning	See Indicator # 57	
				60 – Public Inquiries	See Indicator # 60	
			<b>7.2.2 – Evidence of understanding and use of Aboriginal Knowledge through the engagement of willing Aboriginal communities, using a process that identifies and manages culturally important resources and values.</b>	33 – First Nation Consultation & Information Sharing	See Indicator # 33	
				57 – Number of Known values and Uses Addressed in Operational Planning	See Indicator # 57	
				62 – Brushing Program Aerial Herbicide Use	See Indicator # 62	
			<b>7.2.3 – Level of management and/or protection of areas</b>	33 – First Nations Consultation &	See Indicator # 33	



CCFM Criteria & CSA SFM Elements	Value	Objective	CSA core Indicator (reference only)	SFMP Indicator		Target
			<p>where culturally important practices and activities occur.</p>	Information Sharing		
				57 – Number of Known values and Uses Addressed in Operational Planning	See Indicator # 57	
				62 – Brushing Program Aerial Herbicide Use	The number of hectares removed annually from the participants' aerial herbicide plans based on input from First Nations or the public and final treatment layout	The participants will report annually, the number of hectares removed from the participants' aerial herbicide plans based on input from First Nations or the public and final treatment layout



### **Appendix 3: Access Management**

**Table 39: Road Construction Activity – Forest Licensees 2017-2018**

Road Steward	Road Name	POC	POT	Road Length (m)	Completion Date	Season	Operating Area	Method
Canfor	01-119-00	0	1163	1163	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-119-01	0	243	243	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-119-02	0	477	477	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-187-00	0	1574	1574	9/12/2017	Summer	Inga Lake	Subgrade
Canfor	01-187-01	0	352	352	9/12/2017	Summer	Inga Lake	Subgrade
Canfor	01-187-02	0	147	147	9/12/2017	Summer	Inga Lake	Subgrade
Canfor	01-188-00	0	2762	2762	9/12/2017	Summer	Inga Lake	Subgrade
Canfor	01-188-01	0	604	604	9/12/2017	Summer	Inga Lake	Subgrade
Canfor	01-228-01	0	187	187	12/14/2017	Summer	Inga Lake	Subgrade
Canfor	01-228-02	0	256	256	12/14/2017	Summer	Inga Lake	Subgrade
Canfor	01-230-01	0	776	776	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-230-02	0	494	494	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-231-00	0	530	530	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-231-01	0	102	102	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-231-02	0	195	195	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-233-01	0	271	271	8/23/2017	Summer	Inga Lake	Subgrade
Canfor	01-233-02	0	511	511	8/23/2017	Summer	Inga Lake	Subgrade
Canfor	01-235-00	0	3048	3048	12/20/2017	Winter	Inga Lake	Subgrade
Canfor	01-235-01	0	640	640	2/1/2018	Winter	Inga Lake	Subgrade
Canfor	01-235-02	0	370	370	12/20/2017	Winter	Inga Lake	Subgrade
Canfor	01-235-03	0	1588	1588	12/20/2017	Winter	Inga Lake	Subgrade
Canfor	01-235-04	0	255	255	2/1/2018	Winter	Inga Lake	Subgrade
Canfor	01-235-05	0	369	369	2/1/2018	Winter	Inga Lake	Subgrade
Canfor	01-238-01	0	1133	1133	8/23/2017	Summer	Inga Lake	Subgrade
Canfor	01-238-02	0	1404	1404	8/23/2017	Summer	Inga Lake	Subgrade
Canfor	01-245-01	0	444	444	12/14/2017	Summer	Inga Lake	Subgrade
Canfor	01-245-02	0	161	161	12/14/2017	Summer	Inga Lake	Subgrade
Canfor	01-257-01	0	1535	1535	2/1/2018	Summer	Inga Lake	Subgrade
Canfor	01-257-02	0	297	297	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-257-03	0	395	395	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-257-04	0	349	349	2/1/2018	Summer	Inga Lake	Subgrade
Canfor	01-259-01	0	1442	1442	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-259-02	0	339	339	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-260-01	0	3487	3487	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-260-02	0	572	572	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-268-01	0	3052	3052	3/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-268-02	0	1938	1938	3/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-268-03	0	741	741	3/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-268-04	0	702	702	3/27/2018	Summer	Inga Lake	Subgrade



Canfor	01-268-05	0	876	876	3/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-268-06	0	365	365	3/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-305-00	0	1980	1980	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-305-01	0	543	543	3/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-305-02	0	1091	1091	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	02-025-00	0	2215	2215	9/4/2017	Summer	South Blueberry	Subgrade
Canfor	02-025-01	0	414	414	9/4/2017	Summer	South Blueberry	Subgrade
Canfor	02-025-03	0	221	221	9/4/2017	Summer	South Blueberry	Subgrade
Canfor	02-041-01	0	1327	1327	8/23/2017	Summer	South Blueberry	Subgrade
Canfor	02-041-02	0	343	343	8/23/2017	Summer	South Blueberry	Subgrade
Canfor	02-041-03	0	211	211	8/23/2017	Summer	South Blueberry	Subgrade
Canfor	02-066-01	0	618	618	9/1/2017	Summer	South Blueberry	Subgrade
Canfor	02-066-02	0	556	556	9/1/2017	Summer	South Blueberry	Subgrade
Canfor	02-066-03	0	760	760	9/1/2017	Summer	South Blueberry	Subgrade
Canfor	02-066-04	0	393	393	9/1/2017	Summer	South Blueberry	Subgrade
Canfor	02-090-01	512	1111	599	8/23/2017	Summer	South Blueberry	Subgrade
Canfor	02-090-02	351	796	445	8/23/2017	Summer	South Blueberry	Subgrade
Canfor	02-090-03	0	371	371	8/23/2017	Summer	South Blueberry	Subgrade
Canfor	02-090-04	0	349	349	8/23/2017	Summer	South Blueberry	Subgrade
Canfor	02-148-00	0	1100	1100	8/21/2017	Winter	South Blueberry	Subgrade
Canfor	02-157-00	3772	4500	728	3/5/2018	Winter	Inga Lake	Subgrade
Canfor	02-174-00	0	1312	1312	9/4/2017	Summer	South Blueberry	Subgrade
Canfor	02-174-01	0	132	132	9/4/2017	Summer	South Blueberry	Subgrade
Canfor	02-174-02	0	394	394	9/4/2017	Summer	South Blueberry	Subgrade
Canfor	02-256-00	0	1290	1290	10/16/2017	Summer	South Blueberry	Subgrade
Canfor	02-256-01	0	152	152	10/16/2017	Summer	South Blueberry	Subgrade
Canfor	02-257-01	0	2154	2154	10/16/2017	Summer	South Blueberry	Subgrade
Canfor	02-257-02	0	365	365	10/16/2017	Summer	South Blueberry	Subgrade
Canfor	02-257-03	0	240	240	10/16/2017	Summer	South Blueberry	Subgrade
Canfor	02-257-04	0	87	87	10/16/2017	Summer	South Blueberry	Subgrade
Canfor	02-274-00	0	671	671	3/12/2018	Summer	South Blueberry	Subgrade
Canfor	02-275-00	0	1761	1761	11/27/2017	Summer	South Blueberry	Subgrade
Canfor	02-275-01	0	1388	1388	11/27/2017	Summer	South Blueberry	Subgrade
Canfor	02-309-00	0	1835	1835	10/1/2017	Summer	South Blueberry	Subgrade
Canfor	02-309-01	0	1108	1108	10/1/2017	Summer	South Blueberry	Subgrade
Canfor	02-309-02	0	968	968	10/1/2017	Summer	South Blueberry	Subgrade
Canfor	02-309-03	0	88	88	10/1/2017	Summer	South Blueberry	Subgrade
Canfor	03-091-00	0	1272	1272	7/19/2017	Summer	North Blueberry	Subgrade
Canfor	03-091-01	0	281	281	7/19/2017	Summer	North Blueberry	Subgrade
Canfor	03-091-02	0	217	217	7/19/2017	Summer	North Blueberry	Subgrade
Canfor	03-092-00	0	1188	1188	8/23/2017	Summer	North Blueberry	Subgrade
Canfor	03-092-01	0	389	389	8/23/2017	Summer	North Blueberry	Subgrade
Canfor	03-092-02	0	426	426	8/23/2017	Summer	North Blueberry	Subgrade
Canfor	03-092-03	0	390	390	8/23/2017	Summer	North Blueberry	Subgrade
Canfor	03-095-00	0	2739	2739	10/26/2017	Summer	North Blueberry	Subgrade
Canfor	03-095-00	0	2739	2739	11/10/2017	Summer	North Blueberry	Subgrade
Canfor	03-095-01	0	1181	1181	10/26/2017	Summer	North Blueberry	Subgrade
Canfor	03-095-01	0	1181	1181	11/10/2017	Summer	North Blueberry	Subgrade



Canfor	03-095-02	0	1171	1171	10/26/2017	Summer	North Blueberry	Subgrade
Canfor	03-095-02	0	1171	1171	11/10/2017	Summer	North Blueberry	Subgrade
Canfor	03-095-03	0	796	796	10/26/2017	Summer	North Blueberry	Subgrade
Canfor	03-095-03	0	796	796	11/10/2017	Summer	North Blueberry	Subgrade
Canfor	04-009-01	0	2446	2446	12/14/2017	Winter	Wonowon	Subgrade
Canfor	04-033-00	0	864	864	7/11/2017	Winter	Wonowon	Subgrade
Canfor	04-034-00	0	261	261	12/13/2017	Winter	Wonowon	Subgrade
Canfor	04-036-00	0	353	353	12/14/2017	Winter	Wonowon	Subgrade
Canfor	04-036-01	0	420	420	12/14/2017	Winter	Wonowon	Subgrade
Canfor	04-075-00	0	1750	1750	6/26/2017	Summer	Wonowon	Subgrade
Canfor	04-075-02	0	700	700	6/26/2017	Summer	Wonowon	Subgrade
Canfor	04-075-03	0	635	635	6/26/2017	Summer	Wonowon	Subgrade
Canfor	04-078-01	0	499	499	12/13/2017	Summer	Wonowon	Subgrade
Canfor	04-088-00	0	340	340	8/18/2017	Summer	Wonowon	Subgrade
Canfor	04-089-01	0	400	400	8/23/2017	Summer	Wonowon	Subgrade
Canfor	04-089-02	0	447	447	8/23/2017	Summer	Wonowon	Subgrade
Canfor	04-103-01	2142	5925	3783	8/23/2017	Summer	Wonowon	Subgrade
Canfor	04-103-01	5925	8972	3047	9/14/2017	Summer	Wonowon	Subgrade
Canfor	04-103-02	0	400	400	8/23/2017	Summer	Wonowon	Subgrade
Canfor	04-103-03	0	794	794	8/23/2017	Summer	Wonowon	Subgrade
Canfor	04-103-03	794	1066	272	8/23/2017	Summer	Wonowon	Subgrade
Canfor	04-103-04	0	444	444	8/23/2017	Summer	Wonowon	Subgrade
Canfor	04-103-05	0	1116	1116	9/14/2017	Summer	Wonowon	Subgrade
Canfor	04-103-06	0	521	521	9/14/2017	Summer	Wonowon	Subgrade
Canfor	04-103-07	0	390	390	9/14/2017	Summer	Wonowon	Subgrade
Canfor	04-151-03	0	811	811	6/15/2017	Summer	Wonowon	Subgrade
Canfor	04-177-01	0	543	543	8/30/2017	Summer	Wonowon	Subgrade
Canfor	04-177-02	0	1109	1109	8/30/2017	Summer	Wonowon	Subgrade
Canfor	04-177-03	0	445	445	8/30/2017	Summer	Wonowon	Subgrade
Canfor	04-177-04	0	520	520	8/30/2017	Summer	Wonowon	Subgrade
Canfor	04-185-01	0	629	629	12/14/2017	Summer	Wonowon	Subgrade
Canfor	04-185-02	0	487	487	12/14/2017	Summer	Wonowon	Subgrade
Canfor	04-188-01	0	903	903	12/14/2017	Summer	Wonowon	Subgrade
Canfor	04-188-02	0	1450	1450	12/14/2017	Summer	Wonowon	Subgrade
Canfor	04-188-03	0	733	733	12/14/2017	Summer	Wonowon	Subgrade
Canfor	04-211-00	0	3589	3589	2/14/2018	Summer	Wonowon	Subgrade
Canfor	04-211-01	0	920	920	3/1/2018	Summer	Wonowon	Subgrade
Canfor	04-211-03	0	195	195	3/1/2018	Summer	Wonowon	Subgrade
Canfor	04-211-04	0	304	304	3/1/2018	Summer	Wonowon	Subgrade
Canfor	04-241-00	0	1900	1900	11/10/2017	Summer	Wonowon	Subgrade
Canfor	04-241-00	0	2749	2749	10/22/2017	Summer	Wonowon	Subgrade
Canfor	04-241-00	1901	2749	848	11/10/2017	Summer	Wonowon	Subgrade
Canfor	06-024-01	0	990	990	10/1/2017	Summer	Blair Creek	Subgrade
Canfor	06-024-02	0	1048	1048	10/1/2017	Summer	Blair Creek	Subgrade
Canfor	06-024-03	0	290	290	10/1/2017	Summer	Blair Creek	Subgrade
Canfor	06-024-04	0	979	979	10/15/2017	Summer	Blair Creek	Subgrade
Canfor	06-024-05	0	254	254	10/1/2017	Summer	Blair Creek	Subgrade



Canfor	06-024-06	0	518	518	10/15/2017	Summer	Blair Creek	Subgrade
Canfor	06-024-07	0	1071	1071	10/15/2017	Summer	Blair Creek	Subgrade
Canfor	06-024-08	0	210	210	10/15/2017	Summer	Blair Creek	Subgrade
Canfor	06-035-08	0	2310	2310	11/1/2017	Summer	Blair Creek	Subgrade
Canfor	06-035-09	0	360	360	11/3/2017	Summer	Blair Creek	Subgrade
Canfor	06-035-10	0	403	403	11/1/2017	Summer	Blair Creek	Subgrade
Canfor	06-035-16	0	1173	1173	11/1/2017	Summer	Blair Creek	Subgrade
Canfor	06-035-17	0	1004	1004	11/3/2017	Summer	Blair Creek	Subgrade
Canfor	06-035-18	0	277	277	11/3/2017	Summer	Blair Creek	Subgrade
Canfor	06-035-22	0	683	683	11/3/2017	Summer	Blair Creeek	Subgrade
Canfor	06-037-04	0	480	480	8/23/2017	Summer	Blair Creek	Subgrade
Canfor	06-044-00	1976	5226	3250	8/15/2017	Summer	Blair Creek	Subgrade
Canfor	06-044-01	0	939	939	8/15/2017	Summer	Blair Creek	Subgrade
Canfor	06-044-03	0	933	933	10/25/2017	Summer	Blair Creek	Subgrade
Canfor	06-045-00	0	3500	3500	2/27/2018	Summer	Blair Creek	Subgrade
Canfor	06-045-00	0	5858	5858	1/1/2018	Summer	Blair Creek	Subgrade
Canfor	06-045-00	3500	5858	2358	2/27/2018	Summer	Blair Creek	Subgrade
Canfor	06-045-01	0	213	213	2/27/2018	Summer	Blair Creek	Subgrade
Canfor	06-062-00	0	2291	2291	12/11/2017	Summer	Blair Creek	Subgrade
Canfor	06-062-01	0	1576	1576	12/11/2017	Summer	Blair Creek	Subgrade
Canfor	06-062-02	0	1070	1070	12/11/2017	Summer	Blair Creek	Subgrade
Canfor	06-062-03	0	953	953	12/11/2017	Summer	Blair Creek	Subgrade
Canfor	06-062-04	0	633	633	12/11/2017	Summer	Blair Creek	Subgrade
Canfor	06-062-05	0	331	331	12/11/2017	Summer	Blair Creek	Subgrade
Canfor	06-073-00	0	2285	2285	12/1/2017	Winter	Blair Creek	Subgrade
Canfor	06-073-01	0	2273	2273	12/8/2017	Winter	Blair Creek	Subgrade
Canfor	06-073-02	0	498	498	12/11/2017	Winter	Blair Creek	Subgrade
Canfor	06-077-00	0	692	692	3/15/2018	Winter	Blair Creek	Subgrade
Canfor	06-085-00	0	3945	3945	3/15/2018	Winter	Blair Creek	Subgrade
Canfor	06-085-01	0	391	391	3/15/2018	Winter	Blair Creek	Subgrade
Canfor	06-085-02	0	1013	1013	3/15/2018	Winter	Blair Creek	Subgrade
Canfor	06-092-00	7600	8300	700	8/23/2017	Summer	Blair Creek	Subgrade
Canfor	06-092-00	8400	9504	1104	8/23/2017	Summer	Blair Creek	Subgrade
Canfor	06-092-04	0	1430	1430	8/23/2017	Summer	Blair Creek	Subgrade
Canfor	06-108-03	0	931	931	10/22/2017	Summer	Blair Creek	Subgrade
Canfor	06-108-03	0	931	931	10/30/2017	Summer	Blair Creek	Subgrade
Canfor	06-108-11	0	1550	1550	10/22/2017	Summer	Blair Creek	Subgrade
Canfor	06-108-11	0	6171	6171	10/30/2017	Summer	Blair Creek	Subgrade
Canfor	06-108-11	1550	6171	4621	10/22/2017	Summer	Blair Creek	Subgrade
Canfor	09-023-01	0	1571	1571	3/19/2018	Summer	Kobes Creek	Subgrade
Canfor	09-023-03	0	706	706	3/19/2018	Summer	Kobes Creek	Subgrade
Canfor	09-034-00	0	3256	3256	1/8/2018	Summer	Kobes Creek	Subgrade
Canfor	09-034-00	2	1667	1665	1/23/2018	Summer	Kobes Creek	Subgrade
Canfor	09-034-00	1667	3256	1589	1/23/2018	Summer	Kobes Creek	Subgrade
Canfor	09-034-01	0	800	800	1/23/2018	Summer	Kobes Creek	Subgrade
Canfor	09-034-01	0	1662	1662	1/8/2018	Summer	Kobes Creek	Subgrade
Canfor	09-034-01	801	1662	861	1/23/2018	Summer	Kobes Creek	Subgrade
Canfor	09-034-02	0	401	401	1/23/2018	Summer	Kobes Creek	Subgrade





Canfor	09-069-00	0	3124	3124	2/14/2018	Summer	Kobes Creek	Subgrade
Canfor	09-069-01	0	741	741	2/14/2018	Summer	Kobes Creek	Subgrade
Canfor	09-069-02	0	931	931	2/14/2018	Summer	Kobes Creek	Subgrade
Canfor	09-069-03	0	217	217	2/14/2018	Summer	Kobes Creek	Subgrade
Canfor	09-078-00	0	461	461	7/11/2017	Summer	Kobes Creek	Subgrade
Canfor	09-084-00	0	2117	2117	3/19/2018	Summer	Kobes Creek	Subgrade
Canfor	09-084-00	0	5753	5753	3/19/2018	Summer	Kobes Creek	Subgrade
Canfor	09-086-01	0	2107	2107	3/19/2018	Summer	Kobes Creek	Subgrade
Canfor	09-086-02	0	293	293	3/19/2018	Summer	Kobes Creek	Subgrade
Canfor	09-089-00	0	2305	2305	3/19/2018	Winter	Kobes Creek	Subgrade
Canfor	09-089-00	0	3033	3033	3/19/2018	Winter	Kobes Creek	Subgrade
Canfor	10-025-00	0	2114	2114	3/1/2018	Summer	Blue Grave Creek	Subgrade
Canfor	10-025-01	0	597	597	3/1/2018	Summer	Blue Grave Creek	Subgrade
Canfor	10-025-02	0	779	779	3/1/2018	Summer	Blue Grave Creek	Subgrade
Canfor	18-052-00	1460	3060	1600	10/13/2017	Summer	Nig Creek	Subgrade
Canfor	18-052-01	0	200	200	10/13/2017	Summer	Nig Creek	Subgrade
Canfor	18-052-02	0	278	278	10/13/2017	Summer	Nig Creek	Subgrade
Canfor	18-053-00	0	663	663	1/23/2018	Summer	Nig Creek	Subgrade
Canfor	18-053-01	0	1285	1285	1/23/2018	Summer	Nig Creek	Subgrade
Canfor	18-053-02	0	398	398	1/23/2018	Summer	Nig Creek	Subgrade
Canfor	18-054-00	0	1191	1191	10/25/2017	Summer	Nig Creek	Subgrade
Canfor	18-054-01	0	346	346	10/25/2017	Summer	Nig Creek	Subgrade
Canfor	18-054-02	0	323	323	10/25/2017	Summer	Nig Creek	Subgrade
Canfor	18-054-03	0	723	723	10/25/2017	Summer	Nig Creek	Subgrade
Canfor	18-054-04	0	400	400	10/25/2017	Summer	Nig Creek	Subgrade
Canfor	18-055-00	2379	5869	3490	11/15/2017	Summer	Nig Creek	Subgrade
Canfor	18-055-00	2379	5869	3490	12/11/2017	Summer	Nig Creek	Subgrade
Canfor	18-055-01	0	2254	2254	9/15/2017	Summer	Nig Creek	Subgrade
Canfor	18-055-02	0	450	450	10/27/2017	Summer	Nig Creek	Subgrade
Canfor	18-055-03	0	251	251	10/27/2017	Summer	Nig Creek	Subgrade
Canfor	18-055-06	0	1553	1553	11/15/2017	Summer	Nig Creek	Subgrade
Canfor	18-055-06	0	1553	1553	12/11/2017	Summer	Nig Creek	Subgrade
Canfor	18-056-00	0	1259	1259	1/17/2018	Summer	Nig Creek	Subgrade
Canfor	18-056-01	0	172	172	1/17/2018	Summer	Nig Creek	Subgrade
Canfor	18-057-00	0	513	513	1/17/2018	Summer	Nig Creek	Subgrade
Canfor	18-057-01	0	1991	1991	1/17/2018	Summer	Nig Creek	Subgrade
Canfor	18-057-02	0	760	760	1/17/2018	Summer	Nig Creek	Subgrade
Canfor	18-057-03	0	457	457	1/17/2018	Summer	Nig Creek	Subgrade
Canfor	19-024-01	0	261	261	1/26/2018	Summer	Laprise Creek	Subgrade
Canfor	19-027-00	0	238	238	12/4/2017	Summer	Laprise Creek	Subgrade
Canfor	19-027-01	0	419	419	12/4/2017	Summer	Laprise Creek	Subgrade
Canfor	19-027-02	0	621	621	12/4/2017	Summer	Laprise Creek	Subgrade
Canfor	19-028-00	0	273	273	12/4/2017	Summer	Laprise Creek	Subgrade
Canfor	19-028-01	0	1327	1327	12/4/2017	Summer	Laprise Creek	Subgrade
Canfor	19-028-02	0	875	875	12/4/2017	Summer	Laprise Creek	Subgrade
Canfor	19-028-03	0	106	106	12/4/2017	Summer	Laprise Creek	Subgrade
Canfor	19-029-00	0	3118	3118	1/23/2018	Summer	Laprise Creek	Subgrade





Canfor	19-029-01	0	1290	1290	1/23/2018	Summer	Laprise Creek	Subgrade
Canfor	19-029-02	0	688	688	1/23/2018	Summer	Laprise Creek	Subgrade
Canfor	19-029-03	0	979	979	1/23/2018	Summer	Laprise Creek	Subgrade
Canfor	19-036-00	0	1217	1217	1/22/2018	Winter	Laprise Creek	Subgrade
Canfor	19-037-00	0	1133	1133	1/26/2018	Summer	Laprise Creek	Subgrade
Canfor	19-075-00	0	2764	2764	11/15/2017	Summer	Laprise Creek	Subgrade
Canfor	19-075-00	0	2764	2764	1/22/2018	Summer	Laprise Creek	Subgrade
Canfor	19-100-00	0	497	497	1/26/2018	Summer	Laprise Creek	Subgrade
Canfor	23-025-00	0	1600	1600	7/6/2017	Summer	Cameron River	Subgrade
Canfor	23-025-00	0	1606	1606	7/15/2017	Summer	Cameron River	Subgrade
Canfor	23-034-00	0	354	354	3/23/2018	Summer	Cameron River	Subgrade
Canfor	23-091-00	0	438	438	3/15/2018	Summer	Cameron River	Subgrade
Canfor	23-094-00	0	1643	1643	3/15/2018	Summer	Cameron River	Subgrade
Canfor	23-098-00	0	1974	1974	3/15/2018	Summer	Cameron River	Subgrade
Canfor	23-108-00	0	2279	2279	10/25/2017	Summer	Cameron River	Subgrade
Canfor	23-108-01	0	628	628	10/25/2017	Summer	Cameron River	Subgrade
Canfor	23-108-02	0	324	324	10/25/2017	Summer	Cameron River	Subgrade
Canfor	23-108-03	0	521	521	3/15/2018	Summer	Cameron River	Subgrade
Canfor	23-108-05	0	273	273	10/25/2017	Summer	Cameron River	Subgrade
Canfor	23-108-10	0	733	733	10/25/2017	Summer	Cameron River	Subgrade
Canfor	23-115-00	0	378	378	2/15/2018	Summer	Cameron River	Subgrade
Canfor	23-115-01	0	968	968	2/15/2018	Summer	Cameron River	Subgrade
Canfor	24-037-00	0	2458	2458	2/1/2018	Winter	Jedney Creek	Subgrade
Canfor	24-037-01	0	303	303	2/1/2018	Winter	Jedney Creek	Subgrade
Canfor	24-037-02	0	197	197	2/1/2018	Winter	Jedney Creek	Subgrade
Canfor	24-037-03	0	311	311	2/1/2018	Winter	Jedney Creek	Subgrade
Canfor	24-037-04	0	148	148	2/1/2018	Winter	Jedney Creek	Subgrade
Canfor	24-037-05	0	356	356	2/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-037-06	0	428	428	2/1/2018	Winter	Jedney Creek	Subgrade
Canfor	24-037-07	0	469	469	2/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-037-08	0	411	411	2/1/2018	Winter	Jedney Creek	Subgrade
Canfor	24-310-00	0	2287	2287	2/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-317-00	0	4679	4679	10/20/2017	Summer	Jedney Creek	Subgrade
Canfor	24-317-01	0	500	500	10/16/2017	Summer	Jedney Creek	Subgrade
Canfor	24-317-03	0	334	334	10/24/2017	Summer	Jedney Creek	Subgrade
Canfor	24-317-04	0	376	376	10/16/2017	Summer	Jedney Creek	Subgrade
Canfor	24-325-00	9480	11274	1794	11/2/2017	Summer	Jedney Creek	Subgrade
Canfor	24-325-00	11274	13685	2411	11/27/2017	Winter	Jedney Creek	Subgrade
Canfor	24-325-01	0	2463	2463	10/31/2017	Summer	Jedney Creek	Subgrade
Canfor	24-325-02	0	413	413	11/27/2017	Summer	Jedney Creek	Subgrade
Canfor	24-325-03	0	497	497	10/30/2017	Summer	Jedney Creek	Subgrade
Canfor	24-325-05	0	445	445	11/27/2017	Winter	Jedney Creek	Subgrade
Canfor	24-325-06	0	380	380	11/27/2017	Winter	Jedney Creek	Subgrade
Canfor	29-109-00	0	1530	1530	3/15/2018	Summer	Prespatou Creek	Subgrade
Canfor	29-109-02	0	851	851	3/15/2018	Summer	Prespatou Creek	Subgrade
Canfor	29-109-03	0	379	379	3/15/2018	Summer	Prespatou Creek	Subgrade
Canfor	43-056-00	0	2291	2291	1/17/2018	Summer	Cache Creek	Subgrade
Canfor	43-056-01	0	320	320	1/17/2018	Summer	Cache Creek	Subgrade



Canfor	43-056-02	0	319	319	1/17/2018	Summer	Cache Creek	Subgrade
Canfor	43-056-03	0	946	946	1/17/2018	Summer	Cache Creek	Subgrade
Canfor	44-047-01	0	2638	2638	11/10/2017	Summer	East Farrell Creek	Subgrade
Canfor	44-047-02	0	607	607	11/10/2017	Summer	East Farrell Creek	Subgrade
Canfor	44-047-03	0	360	360	11/10/2017	Summer	East Farrell Creek	Subgrade
Canfor	44-050-01	0	273	273	3/1/2018	Summer	East Farrell Creek	Subgrade
Canfor	44-050-02	0	306	306	3/1/2018	Summer	East Farrell Creek	Subgrade
Canfor	44-050-03	0	1190	1190	3/1/2018	Summer	East Farrell Creek	Subgrade
Canfor	44-064-02	0	1185	1185	3/1/2018	Summer	East Farrell Creek	Subgrade
Canfor	44-064-03	0	482	482	3/1/2018	Summer	East Farrell Creek	Subgrade
Canfor	45-044-01	0	2718	2718	12/4/2017	Summer	West Farrell Creek	Subgrade
Canfor	45-044-02	0	542	542	1/22/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-044-03	0	276	276	1/22/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-044-04	0	386	386	1/22/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-045-01	0	1760	1760	10/15/2017	Summer	West Farrell Creek	Subgrade
Canfor	45-045-01	1760	1800	40	10/31/2017	Summer	West Farrell Creek	Subgrade
Canfor	45-045-01	1800	5258	3458	11/7/2017	Summer	West Farrell Creek	Subgrade
Canfor	45-045-01	5248	6500	1252	1/29/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-045-01	5258	6500	1242	1/8/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-054-01	0	378	378	11/10/2017	Summer	West Farrell Creek	Subgrade
Canfor	45-054-01	379	2487	2108	11/10/2017	Summer	West Farrell Creek	Subgrade
Canfor	45-054-02	0	612	612	11/10/2017	Summer	West Farrell Creek	Subgrade
Canfor	45-067-00	0	164	164	9/26/2017	Winter	West Farrell Creek	Subgrade
Canfor	45-067-01	0	251	251	9/26/2017	Winter	West Farrell Creek	Subgrade
Canfor	615-800	0	3	3	11/24/2017	Winter	La Prise Creek	Subgrade
Canfor	615-900	0	8	8	11/24/2017	Winter	La Prise Creek	Subgrade
Canfor	D-049-B Road	0	2953	2953	11/10/2017	Summer	North Blueberry	Subgrade
Canfor	Mile 86 Road	9233	10661	1428	7/6/2017	Summer	South Blueberry	Subgrade
Canfor	S01-009-00	0	469	469	9/12/2017	Winter	Inga Lake	Subgrade
Canfor	S01-009-00	3600	4649	1049	9/12/2017	Winter	Inga Lake	Subgrade
Canfor/LP	04-030-00	1185	1568	383	10/22/2017	Summer	Wonowon	Subgrade
Canfor/LP	A84189-02077-00	1419	1700	281	9/4/2017	Summer	Access to A84189-02077	Subgrade

Road Steward	Road Name	POC	POT	Road Length (m)	Completion Date	Season	Operating Area	Method
Canfor	01-119-00	0	1163	1163	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-119-01	0	243	243	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-119-02	0	477	477	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-187-00	0	1574	1574	9/12/2017	Summer	Inga Lake	Subgrade
Canfor	01-187-01	0	352	352	9/12/2017	Summer	Inga Lake	Subgrade
Canfor	01-187-02	0	147	147	9/12/2017	Summer	Inga Lake	Subgrade
Canfor	01-188-00	0	2762	2762	9/12/2017	Summer	Inga Lake	Subgrade
Canfor	01-188-01	0	604	604	9/12/2017	Summer	Inga Lake	Subgrade



Canfor	01-228-01	0	187	187	12/14/2017	Summer	Inga Lake	Subgrade
Canfor	01-228-02	0	256	256	12/14/2017	Summer	Inga Lake	Subgrade
Canfor	01-230-01	0	776	776	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-230-02	0	494	494	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-231-00	0	530	530	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-231-01	0	102	102	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-231-02	0	195	195	8/31/2017	Summer	Inga Lake	Subgrade
Canfor	01-233-01	0	271	271	8/23/2017	Summer	Inga Lake	Subgrade
Canfor	01-233-02	0	511	511	8/23/2017	Summer	Inga Lake	Subgrade
Canfor	01-235-00	0	3048	3048	12/20/2017	Winter	Inga Lake	Subgrade
Canfor	01-235-01	0	640	640	2/1/2018	Winter	Inga Lake	Subgrade
Canfor	01-235-02	0	370	370	12/20/2017	Winter	Inga Lake	Subgrade
Canfor	01-235-03	0	1588	1588	12/20/2017	Winter	Inga Lake	Subgrade
Canfor	01-235-04	0	255	255	2/1/2018	Winter	Inga Lake	Subgrade
Canfor	01-235-05	0	369	369	2/1/2018	Winter	Inga Lake	Subgrade
Canfor	01-238-01	0	1133	1133	8/23/2017	Summer	Inga Lake	Subgrade
Canfor	01-238-02	0	1404	1404	8/23/2017	Summer	Inga Lake	Subgrade
Canfor	01-245-01	0	444	444	12/14/2017	Summer	Inga Lake	Subgrade
Canfor	01-245-02	0	161	161	12/14/2017	Summer	Inga Lake	Subgrade
Canfor	01-257-01	0	1535	1535	2/1/2018	Summer	Inga Lake	Subgrade
Canfor	01-257-02	0	297	297	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-257-03	0	395	395	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-257-04	0	349	349	2/1/2018	Summer	Inga Lake	Subgrade
Canfor	01-259-01	0	1442	1442	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-259-02	0	339	339	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-260-01	0	3487	3487	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-260-02	0	572	572	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-268-01	0	3052	3052	3/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-268-02	0	1938	1938	3/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-268-03	0	741	741	3/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-268-04	0	702	702	3/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-268-05	0	876	876	3/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-268-06	0	365	365	3/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-305-00	0	1980	1980	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-305-01	0	543	543	3/27/2018	Summer	Inga Lake	Subgrade
Canfor	01-305-02	0	1091	1091	2/27/2018	Summer	Inga Lake	Subgrade
Canfor	02-025-00	0	2215	2215	9/4/2017	Summer	South Blueberry	Subgrade
Canfor	02-025-01	0	414	414	9/4/2017	Summer	South Blueberry	Subgrade
Canfor	02-025-03	0	221	221	9/4/2017	Summer	South Blueberry	Subgrade
Canfor	02-041-01	0	1327	1327	8/23/2017	Summer	South Blueberry	Subgrade
Canfor	02-041-02	0	343	343	8/23/2017	Summer	South Blueberry	Subgrade
Canfor	02-041-03	0	211	211	8/23/2017	Summer	South Blueberry	Subgrade
Canfor	02-066-01	0	618	618	9/1/2017	Summer	South Blueberry	Subgrade
Canfor	02-066-02	0	556	556	9/1/2017	Summer	South Blueberry	Subgrade
Canfor	02-066-03	0	760	760	9/1/2017	Summer	South Blueberry	Subgrade
Canfor	02-066-04	0	393	393	9/1/2017	Summer	South Blueberry	Subgrade



Canfor	02-090-01	512	1111	599	8/23/2017	Summer	South Blueberry	Subgrade
Canfor	02-090-02	351	796	445	8/23/2017	Summer	South Blueberry	Subgrade
Canfor	02-090-03	0	371	371	8/23/2017	Summer	South Blueberry	Subgrade
Canfor	02-090-04	0	349	349	8/23/2017	Summer	South Blueberry	Subgrade
Canfor	02-148-00	0	1100	1100	8/21/2017	Winter	South Blueberry	Subgrade
Canfor	02-157-00	3772	4500	728	3/5/2018	Winter	Inga Lake	Subgrade
Canfor	02-174-00	0	1312	1312	9/4/2017	Summer	South Blueberry	Subgrade
Canfor	02-174-01	0	132	132	9/4/2017	Summer	South Blueberry	Subgrade
Canfor	02-174-02	0	394	394	9/4/2017	Summer	South Blueberry	Subgrade
Canfor	02-256-00	0	1290	1290	10/16/2017	Summer	South Blueberry	Subgrade
Canfor	02-256-01	0	152	152	10/16/2017	Summer	South Blueberry	Subgrade
Canfor	02-257-01	0	2154	2154	10/16/2017	Summer	South Blueberry	Subgrade
Canfor	02-257-02	0	365	365	10/16/2017	Summer	South Blueberry	Subgrade
Canfor	02-257-03	0	240	240	10/16/2017	Summer	South Blueberry	Subgrade
Canfor	02-257-04	0	87	87	10/16/2017	Summer	South Blueberry	Subgrade
Canfor	02-274-00	0	671	671	3/12/2018	Summer	South Blueberry	Subgrade
Canfor	02-275-00	0	1761	1761	11/27/2017	Summer	South Blueberry	Subgrade
Canfor	02-275-01	0	1388	1388	11/27/2017	Summer	South Blueberry	Subgrade
Canfor	02-309-00	0	1835	1835	10/1/2017	Summer	South Blueberry	Subgrade
Canfor	02-309-01	0	1108	1108	10/1/2017	Summer	South Blueberry	Subgrade
Canfor	02-309-02	0	968	968	10/1/2017	Summer	South Blueberry	Subgrade
Canfor	02-309-03	0	88	88	10/1/2017	Summer	South Blueberry	Subgrade
Canfor	03-091-00	0	1272	1272	7/19/2017	Summer	North Blueberry	Subgrade
Canfor	03-091-01	0	281	281	7/19/2017	Summer	North Blueberry	Subgrade
Canfor	03-091-02	0	217	217	7/19/2017	Summer	North Blueberry	Subgrade
Canfor	03-092-00	0	1188	1188	8/23/2017	Summer	North Blueberry	Subgrade
Canfor	03-092-01	0	389	389	8/23/2017	Summer	North Blueberry	Subgrade
Canfor	03-092-02	0	426	426	8/23/2017	Summer	North Blueberry	Subgrade
Canfor	03-092-03	0	390	390	8/23/2017	Summer	North Blueberry	Subgrade
Canfor	03-095-00	0	2739	2739	10/26/2017	Summer	North Blueberry	Subgrade
Canfor	03-095-00	0	2739	2739	11/10/2017	Summer	North Blueberry	Subgrade
Canfor	03-095-01	0	1181	1181	10/26/2017	Summer	North Blueberry	Subgrade
Canfor	03-095-01	0	1181	1181	11/10/2017	Summer	North Blueberry	Subgrade
Canfor	03-095-02	0	1171	1171	10/26/2017	Summer	North Blueberry	Subgrade
Canfor	03-095-02	0	1171	1171	11/10/2017	Summer	North Blueberry	Subgrade
Canfor	03-095-03	0	796	796	10/26/2017	Summer	North Blueberry	Subgrade
Canfor	03-095-03	0	796	796	11/10/2017	Summer	North Blueberry	Subgrade
Canfor	04-009-01	0	2446	2446	12/14/2017	Winter	Wonowon	Subgrade
Canfor	04-033-00	0	864	864	7/11/2017	Winter	Wonowon	Subgrade
Canfor	04-034-00	0	261	261	12/13/2017	Winter	Wonowon	Subgrade
Canfor	04-036-00	0	353	353	12/14/2017	Winter	Wonowon	Subgrade
Canfor	04-036-01	0	420	420	12/14/2017	Winter	Wonowon	Subgrade
Canfor	04-075-00	0	1750	1750	6/26/2017	Summer	Wonowon	Subgrade
Canfor	04-075-02	0	700	700	6/26/2017	Summer	Wonowon	Subgrade
Canfor	04-075-03	0	635	635	6/26/2017	Summer	Wonowon	Subgrade
Canfor	04-078-01	0	499	499	12/13/2017	Summer	Wonowon	Subgrade



Canfor	04-088-00	0	340	340	8/18/2017	Summer	Wonowon	Subgrade
Canfor	04-089-01	0	400	400	8/23/2017	Summer	Wonowon	Subgrade
Canfor	04-089-02	0	447	447	8/23/2017	Summer	Wonowon	Subgrade
Canfor	04-103-01	2142	5925	3783	8/23/2017	Summer	Wonowon	Subgrade
Canfor	04-103-01	5925	8972	3047	9/14/2017	Summer	Wonowon	Subgrade
Canfor	04-103-02	0	400	400	8/23/2017	Summer	Wonowon	Subgrade
Canfor	04-103-03	0	794	794	8/23/2017	Summer	Wonowon	Subgrade
Canfor	04-103-03	794	1066	272	8/23/2017	Summer	Wonowon	Subgrade
Canfor	04-103-04	0	444	444	8/23/2017	Summer	Wonowon	Subgrade
Canfor	04-103-05	0	1116	1116	9/14/2017	Summer	Wonowon	Subgrade
Canfor	04-103-06	0	521	521	9/14/2017	Summer	Wonowon	Subgrade
Canfor	04-103-07	0	390	390	9/14/2017	Summer	Wonowon	Subgrade
Canfor	04-151-03	0	811	811	6/15/2017	Summer	Wonowon	Subgrade
Canfor	04-177-01	0	543	543	8/30/2017	Summer	Wonowon	Subgrade
Canfor	04-177-02	0	1109	1109	8/30/2017	Summer	Wonowon	Subgrade
Canfor	04-177-03	0	445	445	8/30/2017	Summer	Wonowon	Subgrade
Canfor	04-177-04	0	520	520	8/30/2017	Summer	Wonowon	Subgrade
Canfor	04-185-01	0	629	629	12/14/2017	Summer	Wonowon	Subgrade
Canfor	04-185-02	0	487	487	12/14/2017	Summer	Wonowon	Subgrade
Canfor	04-188-01	0	903	903	12/14/2017	Summer	Wonowon	Subgrade
Canfor	04-188-02	0	1450	1450	12/14/2017	Summer	Wonowon	Subgrade
Canfor	04-188-03	0	733	733	12/14/2017	Summer	Wonowon	Subgrade
Canfor	04-211-00	0	3589	3589	2/14/2018	Summer	Wonowon	Subgrade
Canfor	04-211-01	0	920	920	3/1/2018	Summer	Wonowon	Subgrade
Canfor	04-211-03	0	195	195	3/1/2018	Summer	Wonowon	Subgrade
Canfor	04-211-04	0	304	304	3/1/2018	Summer	Wonowon	Subgrade
Canfor	04-241-00	0	1900	1900	11/10/2017	Summer	Wonowon	Subgrade
Canfor	04-241-00	0	2749	2749	10/22/2017	Summer	Wonowon	Subgrade
Canfor	04-241-00	1901	2749	848	11/10/2017	Summer	Wonowon	Subgrade
Canfor	06-024-01	0	990	990	10/1/2017	Summer	Blair Creek	Subgrade
Canfor	06-024-02	0	1048	1048	10/1/2017	Summer	Blair Creek	Subgrade
Canfor	06-024-03	0	290	290	10/1/2017	Summer	Blair Creek	Subgrade
Canfor	06-024-04	0	979	979	10/15/2017	Summer	Blair Creek	Subgrade
Canfor	06-024-05	0	254	254	10/1/2017	Summer	Blair Creek	Subgrade
Canfor	06-024-06	0	518	518	10/15/2017	Summer	Blair Creek	Subgrade
Canfor	06-024-07	0	1071	1071	10/15/2017	Summer	Blair Creek	Subgrade
Canfor	06-024-08	0	210	210	10/15/2017	Summer	Blair Creek	Subgrade
Canfor	06-035-08	0	2310	2310	11/1/2017	Summer	Blair Creek	Subgrade
Canfor	06-035-09	0	360	360	11/3/2017	Summer	Blair Creek	Subgrade
Canfor	06-035-10	0	403	403	11/1/2017	Summer	Blair Creek	Subgrade
Canfor	06-035-16	0	1173	1173	11/1/2017	Summer	Blair Creek	Subgrade
Canfor	06-035-17	0	1004	1004	11/3/2017	Summer	Blair Creek	Subgrade
Canfor	06-035-18	0	277	277	11/3/2017	Summer	Blair Creek	Subgrade
Canfor	06-035-22	0	683	683	11/3/2017	Summer	Blair Creek	Subgrade
Canfor	06-037-04	0	480	480	8/23/2017	Summer	Blair Creek	Subgrade
Canfor	06-044-00	1976	5226	3250	8/15/2017	Summer	Blair Creek	Subgrade





Canfor	06-044-01	0	939	939	8/15/2017	Summer	Blair Creek	Subgrade
Canfor	06-044-03	0	933	933	10/25/2017	Summer	Blair Creek	Subgrade
Canfor	06-045-00	0	3500	3500	2/27/2018	Summer	Blair Creek	Subgrade
Canfor	06-045-00	0	5858	5858	1/1/2018	Summer	Blair Creek	Subgrade
Canfor	06-045-00	3500	5858	2358	2/27/2018	Summer	Blair Creek	Subgrade
Canfor	06-045-01	0	213	213	2/27/2018	Summer	Blair Creek	Subgrade
Canfor	06-062-00	0	2291	2291	12/11/2017	Summer	Blair Creek	Subgrade
Canfor	06-062-01	0	1576	1576	12/11/2017	Summer	Blair Creek	Subgrade
Canfor	06-062-02	0	1070	1070	12/11/2017	Summer	Blair Creek	Subgrade
Canfor	06-062-03	0	953	953	12/11/2017	Summer	Blair Creek	Subgrade
Canfor	06-062-04	0	633	633	12/11/2017	Summer	Blair Creek	Subgrade
Canfor	06-062-05	0	331	331	12/11/2017	Summer	Blair Creek	Subgrade
Canfor	06-073-00	0	2285	2285	12/1/2017	Winter	Blair Creek	Subgrade
Canfor	06-073-01	0	2273	2273	12/8/2017	Winter	Blair Creek	Subgrade
Canfor	06-073-02	0	498	498	12/11/2017	Winter	Blair Creek	Subgrade
Canfor	06-077-00	0	692	692	3/15/2018	Winter	Blair Creek	Subgrade
Canfor	06-085-00	0	3945	3945	3/15/2018	Winter	Blair Creek	Subgrade
Canfor	06-085-01	0	391	391	3/15/2018	Winter	Blair Creek	Subgrade
Canfor	06-085-02	0	1013	1013	3/15/2018	Winter	Blair Creek	Subgrade
Canfor	06-092-00	7600	8300	700	8/23/2017	Summer	Blair Creek	Subgrade
Canfor	06-092-00	8400	9504	1104	8/23/2017	Summer	Blair Creek	Subgrade
Canfor	06-092-04	0	1430	1430	8/23/2017	Summer	Blair Creek	Subgrade
Canfor	06-108-03	0	931	931	10/22/2017	Summer	Blair Creek	Subgrade
Canfor	06-108-03	0	931	931	10/30/2017	Summer	Blair Creek	Subgrade
Canfor	06-108-11	0	1550	1550	10/22/2017	Summer	Blair Creek	Subgrade
Canfor	06-108-11	0	6171	6171	10/30/2017	Summer	Blair Creek	Subgrade
Canfor	06-108-11	1550	6171	4621	10/22/2017	Summer	Blair Creek	Subgrade
Canfor	09-023-01	0	1571	1571	3/19/2018	Summer	Kobes Creek	Subgrade
Canfor	09-023-03	0	706	706	3/19/2018	Summer	Kobes Creek	Subgrade
Canfor	09-034-00	0	3256	3256	1/8/2018	Summer	Kobes Creek	Subgrade
Canfor	09-034-00	2	1667	1665	1/23/2018	Summer	Kobes Creek	Subgrade
Canfor	09-034-00	1667	3256	1589	1/23/2018	Summer	Kobes Creek	Subgrade
Canfor	09-034-01	0	800	800	1/23/2018	Summer	Kobes Creek	Subgrade
Canfor	09-034-01	0	1662	1662	1/8/2018	Summer	Kobes Creek	Subgrade
Canfor	09-034-01	801	1662	861	1/23/2018	Summer	Kobes Creek	Subgrade
Canfor	09-034-02	0	401	401	1/23/2018	Summer	Kobes Creek	Subgrade
Canfor	09-069-00	0	3124	3124	2/14/2018	Summer	Kobes Creek	Subgrade
Canfor	09-069-01	0	741	741	2/14/2018	Summer	Kobes Creek	Subgrade
Canfor	09-069-02	0	931	931	2/14/2018	Summer	Kobes Creek	Subgrade
Canfor	09-069-03	0	217	217	2/14/2018	Summer	Kobes Creek	Subgrade
Canfor	09-078-00	0	461	461	7/11/2017	Summer	Kobes Creek	Subgrade
Canfor	09-084-00	0	2117	2117	3/19/2018	Summer	Kobes Creek	Subgrade
Canfor	09-084-00	0	5753	5753	3/19/2018	Summer	Kobes Creek	Subgrade
Canfor	09-086-01	0	2107	2107	3/19/2018	Summer	Kobes Creek	Subgrade
Canfor	09-086-02	0	293	293	3/19/2018	Summer	Kobes Creek	Subgrade
Canfor	09-089-00	0	2305	2305	3/19/2018	Winter	Kobes Creek	Subgrade



Canfor	09-089-00	0	3033	3033	3/19/2018	Winter	Kobes Creek	Subgrade
Canfor	10-025-00	0	2114	2114	3/1/2018	Summer	Blue Grave Creek	Subgrade
Canfor	10-025-01	0	597	597	3/1/2018	Summer	Blue Grave Creek	Subgrade
Canfor	10-025-02	0	779	779	3/1/2018	Summer	Blue Grave Creek	Subgrade
Canfor	18-052-00	1460	3060	1600	10/13/2017	Summer	Nig Creek	Subgrade
Canfor	18-052-01	0	200	200	10/13/2017	Summer	Nig Creek	Subgrade
Canfor	18-052-02	0	278	278	10/13/2017	Summer	Nig Creek	Subgrade
Canfor	18-053-00	0	663	663	1/23/2018	Summer	Nig Creek	Subgrade
Canfor	18-053-01	0	1285	1285	1/23/2018	Summer	Nig Creek	Subgrade
Canfor	18-053-02	0	398	398	1/23/2018	Summer	Nig Creek	Subgrade
Canfor	18-054-00	0	1191	1191	10/25/2017	Summer	Nig Creek	Subgrade
Canfor	18-054-01	0	346	346	10/25/2017	Summer	Nig Creek	Subgrade
Canfor	18-054-02	0	323	323	10/25/2017	Summer	Nig Creek	Subgrade
Canfor	18-054-03	0	723	723	10/25/2017	Summer	Nig Creek	Subgrade
Canfor	18-054-04	0	400	400	10/25/2017	Summer	Nig Creek	Subgrade
Canfor	18-055-00	2379	5869	3490	11/15/2017	Summer	Nig Creek	Subgrade
Canfor	18-055-00	2379	5869	3490	12/11/2017	Summer	Nig Creek	Subgrade
Canfor	18-055-01	0	2254	2254	9/15/2017	Summer	Nig Creek	Subgrade
Canfor	18-055-02	0	450	450	10/27/2017	Summer	Nig Creek	Subgrade
Canfor	18-055-03	0	251	251	10/27/2017	Summer	Nig Creek	Subgrade
Canfor	18-055-06	0	1553	1553	11/15/2017	Summer	Nig Creek	Subgrade
Canfor	18-055-06	0	1553	1553	12/11/2017	Summer	Nig Creek	Subgrade
Canfor	18-056-00	0	1259	1259	1/17/2018	Summer	Nig Creek	Subgrade
Canfor	18-056-01	0	172	172	1/17/2018	Summer	Nig Creek	Subgrade
Canfor	18-057-00	0	513	513	1/17/2018	Summer	Nig Creek	Subgrade
Canfor	18-057-01	0	1991	1991	1/17/2018	Summer	Nig Creek	Subgrade
Canfor	18-057-02	0	760	760	1/17/2018	Summer	Nig Creek	Subgrade
Canfor	18-057-03	0	457	457	1/17/2018	Summer	Nig Creek	Subgrade
Canfor	19-024-01	0	261	261	1/26/2018	Summer	Laprise Creek	Subgrade
Canfor	19-027-00	0	238	238	12/4/2017	Summer	Laprise Creek	Subgrade
Canfor	19-027-01	0	419	419	12/4/2017	Summer	Laprise Creek	Subgrade
Canfor	19-027-02	0	621	621	12/4/2017	Summer	Laprise Creek	Subgrade
Canfor	19-028-00	0	273	273	12/4/2017	Summer	Laprise Creek	Subgrade
Canfor	19-028-01	0	1327	1327	12/4/2017	Summer	Laprise Creek	Subgrade
Canfor	19-028-02	0	875	875	12/4/2017	Summer	Laprise Creek	Subgrade
Canfor	19-028-03	0	106	106	12/4/2017	Summer	Laprise Creek	Subgrade
Canfor	19-029-00	0	3118	3118	1/23/2018	Summer	Laprise Creek	Subgrade
Canfor	19-029-01	0	1290	1290	1/23/2018	Summer	Laprise Creek	Subgrade
Canfor	19-029-02	0	688	688	1/23/2018	Summer	Laprise Creek	Subgrade
Canfor	19-029-03	0	979	979	1/23/2018	Summer	Laprise Creek	Subgrade
Canfor	19-036-00	0	1217	1217	1/22/2018	Winter	Laprise Creek	Subgrade
Canfor	19-037-00	0	1133	1133	1/26/2018	Summer	Laprise Creek	Subgrade
Canfor	19-075-00	0	2764	2764	11/15/2017	Summer	Laprise Creek	Subgrade
Canfor	19-075-00	0	2764	2764	1/22/2018	Summer	Laprise Creek	Subgrade
Canfor	19-100-00	0	497	497	1/26/2018	Summer	Laprise Creek	Subgrade
Canfor	23-025-00	0	1600	1600	7/6/2017	Summer	Cameron River	Subgrade



Canfor	23-025-00	0	1606	1606	7/15/2017	Summer	Cameron River	Subgrade
Canfor	23-034-00	0	354	354	3/23/2018	Summer	Cameron River	Subgrade
Canfor	23-091-00	0	438	438	3/15/2018	Summer	Cameron River	Subgrade
Canfor	23-094-00	0	1643	1643	3/15/2018	Summer	Cameron River	Subgrade
Canfor	23-098-00	0	1974	1974	3/15/2018	Summer	Cameron River	Subgrade
Canfor	23-108-00	0	2279	2279	10/25/2017	Summer	Cameron River	Subgrade
Canfor	23-108-01	0	628	628	10/25/2017	Summer	Cameron River	Subgrade
Canfor	23-108-02	0	324	324	10/25/2017	Summer	Cameron River	Subgrade
Canfor	23-108-03	0	521	521	3/15/2018	Summer	Cameron River	Subgrade
Canfor	23-108-05	0	273	273	10/25/2017	Summer	Cameron River	Subgrade
Canfor	23-108-10	0	733	733	10/25/2017	Summer	Cameron River	Subgrade
Canfor	23-115-00	0	378	378	2/15/2018	Summer	Cameron River	Subgrade
Canfor	23-115-01	0	968	968	2/15/2018	Summer	Cameron River	Subgrade
Canfor	24-037-00	0	2458	2458	2/1/2018	Winter	Jedney Creek	Subgrade
Canfor	24-037-01	0	303	303	2/1/2018	Winter	Jedney Creek	Subgrade
Canfor	24-037-02	0	197	197	2/1/2018	Winter	Jedney Creek	Subgrade
Canfor	24-037-03	0	311	311	2/1/2018	Winter	Jedney Creek	Subgrade
Canfor	24-037-04	0	148	148	2/1/2018	Winter	Jedney Creek	Subgrade
Canfor	24-037-05	0	356	356	2/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-037-06	0	428	428	2/1/2018	Winter	Jedney Creek	Subgrade
Canfor	24-037-07	0	469	469	2/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-037-08	0	411	411	2/1/2018	Winter	Jedney Creek	Subgrade
Canfor	24-310-00	0	2287	2287	2/1/2018	Summer	Jedney Creek	Subgrade
Canfor	24-317-00	0	4679	4679	10/20/2017	Summer	Jedney Creek	Subgrade
Canfor	24-317-01	0	500	500	10/16/2017	Summer	Jedney Creek	Subgrade
Canfor	24-317-03	0	334	334	10/24/2017	Summer	Jedney Creek	Subgrade
Canfor	24-317-04	0	376	376	10/16/2017	Summer	Jedney Creek	Subgrade
Canfor	24-325-00	9480	11274	1794	11/2/2017	Summer	Jedney Creek	Subgrade
Canfor	24-325-00	11274	13685	2411	11/27/2017	Winter	Jedney Creek	Subgrade
Canfor	24-325-01	0	2463	2463	10/31/2017	Summer	Jedney Creek	Subgrade
Canfor	24-325-02	0	413	413	11/27/2017	Summer	Jedney Creek	Subgrade
Canfor	24-325-03	0	497	497	10/30/2017	Summer	Jedney Creek	Subgrade
Canfor	24-325-05	0	445	445	11/27/2017	Winter	Jedney Creek	Subgrade
Canfor	24-325-06	0	380	380	11/27/2017	Winter	Jedney Creek	Subgrade
Canfor	29-109-00	0	1530	1530	3/15/2018	Summer	Prespatou Creek	Subgrade
Canfor	29-109-02	0	851	851	3/15/2018	Summer	Prespatou Creek	Subgrade
Canfor	29-109-03	0	379	379	3/15/2018	Summer	Prespatou Creek	Subgrade
Canfor	43-056-00	0	2291	2291	1/17/2018	Summer	Cache Creek	Subgrade
Canfor	43-056-01	0	320	320	1/17/2018	Summer	Cache Creek	Subgrade
Canfor	43-056-02	0	319	319	1/17/2018	Summer	Cache Creek	Subgrade
Canfor	43-056-03	0	946	946	1/17/2018	Summer	Cache Creek	Subgrade
Canfor	44-047-01	0	2638	2638	11/10/2017	Summer	East Farrell Creek	Subgrade
Canfor	44-047-02	0	607	607	11/10/2017	Summer	East Farrell Creek	Subgrade
Canfor	44-047-03	0	360	360	11/10/2017	Summer	East Farrell Creek	Subgrade
Canfor	44-050-01	0	273	273	3/1/2018	Summer	East Farrell Creek	Subgrade
Canfor	44-050-02	0	306	306	3/1/2018	Summer	East Farrell Creek	Subgrade





Canfor	44-050-03	0	1190	1190	3/1/2018	Summer	East Farrell Creek	Subgrade
Canfor	44-064-02	0	1185	1185	3/1/2018	Summer	East Farrell Creek	Subgrade
Canfor	44-064-03	0	482	482	3/1/2018	Summer	East Farrell Creek	Subgrade
Canfor	45-044-01	0	2718	2718	12/4/2017	Summer	West Farrell Creek	Subgrade
Canfor	45-044-02	0	542	542	1/22/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-044-03	0	276	276	1/22/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-044-04	0	386	386	1/22/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-045-01	0	1760	1760	10/15/2017	Summer	West Farrell Creek	Subgrade
Canfor	45-045-01	1760	1800	40	10/31/2017	Summer	West Farrell Creek	Subgrade
Canfor	45-045-01	1800	5258	3458	11/7/2017	Summer	West Farrell Creek	Subgrade
Canfor	45-045-01	5248	6500	1252	1/29/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-045-01	5258	6500	1242	1/8/2018	Summer	West Farrell Creek	Subgrade
Canfor	45-054-01	0	378	378	11/10/2017	Summer	West Farrell Creek	Subgrade
Canfor	45-054-01	379	2487	2108	11/10/2017	Summer	West Farrell Creek	Subgrade
Canfor	45-054-02	0	612	612	11/10/2017	Summer	West Farrell Creek	Subgrade
Canfor	45-067-00	0	164	164	9/26/2017	Winter	West Farrell Creek	Subgrade
Canfor	45-067-01	0	251	251	9/26/2017	Winter	West Farrell Creek	Subgrade
Canfor	615-800	0	3	3	11/24/2017	Winter	La Prise Creek	Subgrade
Canfor	615-900	0	8	8	11/24/2017	Winter	La Prise Creek	Subgrade
Canfor	D-049-B Road	0	2953	2953	11/10/2017	Summer	North Blueberry	Subgrade
Canfor	Mile 86 Road	9233	10661	1428	7/6/2017	Summer	South Blueberry	Subgrade
Canfor	S01-009-00	0	469	469	9/12/2017	Winter	Inga Lake	Subgrade
Canfor	S01-009-00	3600	4649	1049	9/12/2017	Winter	Inga Lake	Subgrade
Canfor/LP	04-030-00	1185	1568	383	10/22/2017	Summer	Wonowon	Subgrade
Canfor/LP	A84189-02077-00	1419	1700	281	9/4/2017	Summer	Access to A84189-02077	Subgrade





**Table 39A: Licensee deactivation activities for April 1, 2017-March 31, 2018**

Steward Name	Road Name	Start Metre	End Metre	Road Length (m)	Operating Area	Deactivation Level
Canfor	01-009-01	0	842	842	Inga Lake	Permanent
Canfor	01-011-00	0	1276	1276	Inga Lake	Permanent
Canfor	01-166-00	0	1795	1795	Inga Lake	Temporary
Canfor	01-166-01	0	619	619	Inga Lake	Temporary
Canfor	01-210-00	0	2912	2912	Inga Lake	Semi-Permanent
Canfor	01-210-01	0	356	356	Inga Lake	Semi-Permanent
Canfor	01-210-02	0	640	640	Inga Lake	Semi-Permanent
Canfor	01-210-03	0	241	241	Inga Lake	Semi-Permanent
Canfor	01-212-01	0	251	251	Inga Lake	Semi-Permanent
Canfor	01-212-02	0	257	257	Inga Lake	Semi-Permanent
Canfor	01-213-00	0	2468	2468	Inga Lake	Semi-Permanent
Canfor	01-213-01	0	977	977	Inga Lake	Semi-Permanent
Canfor	01-213-02	0	435	435	Inga Lake	Semi-Permanent
Canfor	01-248-01	0	2937	2937	Inga Lake	Semi-Permanent
Canfor	01-248-02	0	1042	1042	Inga Lake	Semi-Permanent
Canfor	01-248-03	0	399	399	Inga Lake	Semi-Permanent
Canfor	01-318-01	0	2087	2087	Inga Lake	Permanent
Canfor	01-330-01	0	452	452	Inga Lake	Permanent
Canfor	01-332-01	0	311	311	Inga Lake	Permanent
Canfor	01-334-00	0	398	398	Inga Lake	Permanent
Canfor	02-023-00	0	547	547	South Blueberry	Permanent
Canfor	02-023-01	0	284	284	South Blueberry	Permanent



Canfor	02-023-02	0	535	535	South Blueberry	Permanent
Canfor	02-025-00	0	2215	2215	South Blueberry	Permanent
Canfor	02-025-01	0	414	414	South Blueberry	Permanent
Canfor	02-025-03	0	221	221	South Blueberry	Permanent
Canfor	02-148-00	0	1100	1100	South Blueberry	Permanent
Canfor	02-170-00	0	1132	1132	South Blueberry	Permanent
Canfor	02-170-01	0	341	341	South Blueberry	Permanent
Canfor	02-170-02	0	487	487	South Blueberry	Permanent
Canfor	02-257-00	0	229	229	South Blueberry	Temporary
Canfor	03-112-01	0	856	856	North Blueberry	Permanent
Canfor	03-112-02	0	126	126	North Blueberry	Permanent
Canfor	03-112-03	0	682	682	North Blueberry	Permanent
Canfor	03-112-04	0	210	210	North Blueberry	Permanent
Canfor	03-112-05	0	904	904	North Blueberry	Permanent
Canfor	03-112-06	0	452	452	North Blueberry	Permanent
Canfor	03-112-07	0	221	221	North Blueberry	Permanent



Canfor	03-112-08	0	190	190	North Blueberry	Permanent
Canfor	03-112-09	0	301	301	North Blueberry	Permanent
Canfor	04-070-00	0	1198	1198	Wonowon	Semi-Permanent
Canfor	04-070-01	0	662	662	Wonowon	Semi-Permanent
Canfor	04-070-02	0	780	780	Wonowon	Permanent
Canfor	04-084-00	0	2123	2123	Wonowon	Semi-Permanent
Canfor	04-084-00	2123	2698	575	Wonowon	Permanent
Canfor	04-088-00	0	340	340	Wonowon	Permanent
Canfor	04-089-01	0	400	400	Wonowon	Semi-Permanent
Canfor	04-089-02	0	447	447	Wonowon	Semi-Permanent
Canfor	04-093-00	0	691	691	Wonowon	Semi-Permanent
Canfor	04-151-01	0	1180	1180	Wonowon	Permanent
Canfor	04-151-03	0	811	811	Wonowon	Permanent
Canfor	04-185-01	0	629	629	Wonowon	Semi-Permanent
Canfor	04-185-02	0	487	487	Wonowon	Semi-Permanent
Canfor	04-188-01	0	903	903	Wonowon	Semi-Permanent
Canfor	04-211-03	0	195	195	Wonowon	Permanent
Canfor	06-093-00	0	2949	2949	Blair Creek	Permanent
Canfor	06-093-01	0	782	782	Blair Creek	Permanent
Canfor	06-093-02	0	494	494	Blair Creek	Permanent
Canfor	06-093-03	0	398	398	Blair Creek	Permanent
Canfor	142 Road	0	12953	12953	Cameron River	Permanent
Canfor	142-600	0	985	985	Cameron River	Permanent
Canfor	18-053-00	0	663	663	Nig Creek	Permanent
Canfor	18-053-01	0	1285	1285	Nig Creek	Permanent
Canfor	18-053-02	0	398	398	Nig Creek	Permanent
Canfor	18-054-04	0	400	400	Nig Creek	Permanent
Canfor	19-027-00	0	238	238	Laprise Creek	Permanent
Canfor	19-027-01	0	419	419	Laprise Creek	Permanent



Canfor	19-027-02	0	612	612	Laprise Creek	Permanent
Canfor	19-028-00	0	237	237	Laprise Creek	Permanent
Canfor	19-028-01	0	1327	1327	Laprise Creek	Permanent
Canfor	19-028-02	0	875	875	Laprise Creek	Permanent
Canfor	19-028-03	0	106	106	Laprise Creek	Permanent
Canfor	19-036-00	0	1217	1217	Laprise Creek	Permanent
Canfor	19-037-00	0	1133	1133	Laprise Creek	
Canfor	19-075-00	0	2764	2764	Laprise Creek	Permanent
Canfor	23-025-00	0	1606	1606	Cameron River	Permanent
Canfor	23-046-00	0	1292	1292	Cameron River	Permanent
Canfor	23-046-01	0	707	707	Cameron River	Permanent
Canfor	23-046-02	0	622	622	Cameron River	Permanent
Canfor	23-046-03	0	133	133	Cameron River	Permanent
Canfor	23-070-00	0	2680	2680	Cameron River	Permanent
Canfor	23-070-05	0	300	300	Cameron River	Permanent
Canfor	23-070-06	0	786	786	Cameron River	Permanent
Canfor	27-036-01	0	2080	2080	Montney Creek	Permanent
Canfor	27-036-02	0	713	713	Montney Creek	Permanent
Canfor	27-053-01	0	661	661	Montney Creek	Permanent
Canfor	27-055-01	0	437	437	Montney Creek	Permanent
Canfor	27-056-01	0	218	218	Montney Creek	Permanent
Canfor	27-063-00	0	3367	3367	Montney Creek	Permanent
Canfor	27-063-02	0	287	287	Montney Creek	Permanent
Canfor	S01-061-00 Rd	3761	3927	166	Inga Lake	Semi-Permanent
Canfor/Cameron River	01-012-01	0	466	466	Inga Lake	Semi-Permanent
Canfor/LP	04-030-01	0	594	594	Wonowon	Temporary
Canfor/LP	S01-061-00 Rd	0	3761	3761	Inga Lake	Semi-Permanent



Canfor/LP	S01-061-01	0	495	495	Inga Lake	Semi-Permanent
Unknown	Bernadette Fork	1715	1981	266	Wonowon	Semi-Permanent
Unknown	Bernadette Fork	1981	3227	1246	Wonowon	Permanent
	11-401	0	425	425	Inga Lake	Permanent

**Table 39B: Licensee access structure activities for April 1, 2017-March 31, 2018**

Road Name	Structure Location (m)	Structure Type
02-243-00	1168	Pipeline Crossing
02-309-01	975	Pipeline Crossing
02-309-02	10	Pipeline Xing - Multiple
06-062-00	538	Pipeline Xing - Single
06-062-04	557	Pipeline Xing - Single
18-055-01	24	Pipeline Xing - Multiple
19-037-00	90	Pipeline Xing - Single
19-075-00	970	Pipeline Xing - Single
29-109-02	839	Pipeline Xing - Single
45-045-01	1589	Bridge
64-100	592	Bridge
Bubbles Road	24700	Bridge
Holman Road	24617	Bridge

**Table 40: Annual report on roads constructed in the Fort St. John BCTS field office area.****April 1<sup>st</sup> 2017 to March 31<sup>st</sup> 2018**

Steward Name	Road Name	Start (m)	End (m)	Length (m)	Completion Date	Season	Operating Area	Method
BCTS	A80057-20065-01	0	2946	2946	2018-01-20	Winter	Cypress Creek	New Road
BCTS	A80057-20065-02	0	388	388	2018-01-20	Winter	Cypress Creek	New Road
BCTS	A80057-20065-A	0	2936	2936	2018-01-03	Winter	Cypress Creek	New Road
BCTS	A80058-20069-B	0	1330	1330	2017-12-07	Winter	Cypress Creek	New Road
BCTS	A80058-20070-02	0	957	957	2017-12-20	Winter	Cypress Creek	New Road
BCTS	A80058-20070-03	0	585	585	2017-12-20	Winter	Cypress Creek	New Road
BCTS	A80058-20070-04	0	379	379	2017-12-20	Winter	Cypress Creek	New Road
BCTS	A80058-20070-A	0	1654	1654	2018-01-25	Winter	Cypress Creek	New Road
BCTS	A92977-24255-01	0	1208	1208	2017-12-10	Winter	Jedney Creek	New Road
BCTS	A92977-24255-02	0	628	628	2017-12-10	Winter	Jedney Creek	New Road
BCTS	A92977-24255-03	0	295	295	2017-12-10	Winter	Jedney Creek	New Road
BCTS	A92977-24255-04	0	358	358	2017-12-10	Winter	Jedney Creek	New Road
BCTS	A92977-24255-A	0	1850	1850	2017-12-10	Winter	Jedney Creek	Reactivate
BCTS	A92983-06040-01	0	177	177	2017-12-10	Winter	Blair Creek	New Road
BCTS	A92983-06040-02	0	647	647	2017-12-10	Winter	Blair Creek	New Road
BCTS	A92983-06040-A	0	3259	3259	2017-12-10	Winter	Blair Creek	New Road
BCTS	A92983-06040-B	0	334	334	2017-12-10	Winter	Blair Creek	New Road
BCTS	A92983-06040-C	0	436	436	2017-12-10	Winter	Blair Creek	New Road
BCTS	A92983-06043-01	0	703	703	2017-12-10	Winter	Blair Creek	New Road
BCTS	A92984-45028-A	0	1008	1008	2017-12-11	Winter	West Farrell Creek	New Road
BCTS	A92984-45028-B	0	885	885	2017-12-11	Winter	West Farrell Creek	New Road
BCTS	A92985-45042-01	0	1292	1292	2018-01-17	Winter	West Farrell Creek	New Road
BCTS	A92985-45042-A	0	2161	2161	2018-01-17	Winter	West Farrell Creek	Reactivate
BCTS	A93055-45050-01	0	173	173	2017-09-15	Winter	West Farrell Creek	New Road
BCTS	A93055-45050-A	0	967	967	2017-09-22	Winter	West Farrell Creek	New Road
BCTS	A93055-45050-B	0	525	525	2017-09-22	Winter	West Farrell Creek	New Road





BCTS	A93384-45017-01	0	541	541	2017-10-01	Winter	West Farrell Creek	New Road
BCTS	A93384-45017-02	0	111	111	2017-10-01	Winter	West Farrell Creek	New Road
BCTS	A93384-45017-A	0	1385	1385	2017-10-03	Winter	West Farrell Creek	New Road
BCTS	A93438-37043-A	0	2736	2736	2018-01-13	Winter	Lily Lake	New Road
BCTS	A93438-37043-B	0	766	766	2018-01-13	Winter	Lily Lake	New Road
BCTS	A93439-24269-02	0	415	415	2017-11-24	Winter	Jedney Creek	New Road
BCTS	A93670-03043-B	398	820	422	2017-12-26	Winter	North Blueberry	New Road
BCTS	A94061-05027-A	0	1466	1466	2018-01-18	Winter	Aikman Creek	New Road
BCTS	A94061-05029-01	0	537	537	2018-01-18	Winter	Aikman Creek	New Road
BCTS	A94061-05030-01	0	283	283	2017-11-13	Winter	Aikman Creek	New Road
BCTS	A94061-05030-02	0	342	342	2017-11-13	Winter	Aikman Creek	New Road
BCTS	A94061-05030-03	0	635	635	2017-11-13	Winter	Aikman Creek	New Road
BCTS	A94061-05030-A	0	1744	1744	2017-11-13	Winter	Aikman Creek	New Road
BCTS	A94061-05031-A	0	588	588	2018-02-08	Winter	Aikman Creek	Reactivate
BCTS	A94070-02260-A	0	190	190	2018-03-19	Winter	South Blueberry	Reactivate
BCTS	A94070-02277-A	0	1138	1138	2018-03-19	Winter	South Blueberry	New Road
BCTS	A94075-06038-01	0	726	726	2017-12-07	Winter	Blair Creek	New Road
BCTS	A94075-06038-02	0	645	645	2017-12-07	Winter	Blair Creek	New Road
BCTS	A94392-03123-01	0	341	341	2017-10-20	Winter	North Blueberry	New Road
BCTS	A94392-03123-02	0	193	193	2017-10-20	Winter	North Blueberry	New Road
BCTS	A94392-03123-03	0	592	592	2017-10-20	Winter	North Blueberry	New Road
BCTS	A94392-03123-A	0	2175	2175	2017-10-20	Winter	North Blueberry	New Road
BCTS	A94392-03123-B	0	1277	1277	2017-10-20	Winter	North Blueberry	New Road
BCTS	A94392-03123-C	0	1616	1616	2017-10-20	Winter	North Blueberry	New Road
BCTS	A94392-03123-D	0	922	922	2017-10-20	Winter	North Blueberry	New Road
BCTS	A94557-24281-A	0	1390	1390	2017-12-28	Winter	Jedney Creek	New Road
BCTS	A94557-24281-A	1390	2231	841	2017-12-28	Winter	Jedney Creek	New Road
BCTS	A94988-24298-01	0	584	584	2017-12-04	Winter	Jedney Creek	New Road
BCTS	A94988-24298-02	0	557	557	2017-12-05	Winter	Jedney Creek	New Road
BCTS	A94988-24298-A	0	2744	2744	2017-12-05	Winter	Jedney Creek	New Road



**Table 43: Annual report on roads deactivated in the Fort St John BCTS field office area.**

**April 1<sup>st</sup> 2017 to March 31<sup>st</sup> 2018**

Steward	Road Name	Start Chainage (m)	End Chainage (m)	Length (m)	Deactivation Date	Method	Operating Area	Access Type	Level
BCTS	11-400	337	707	370	2017-04-12	Deactivated	Beaton-Doig River	Quad/ATV	Maint'd Inactive
BCTS	11-400	707	916	209	2017-04-12	Deactivated	Beaton-Doig River	Quad/ATV	Maint'd Inactive
BCTS	A76781-37018-01	0	1092	1092	2017-04-12	Cross Ditches	Lily Lake	Quad/ATV	Permanent
BCTS	A76781-37018-01	1092	2276	1184	2017-04-12	Cross Ditches	Lily Lake	Quad/ATV	Temporary
BCTS	A76781-37018-02	0	885	885	2017-04-12	Cross Ditches	Lily Lake	Quad/ATV	Temporary
BCTS	A76781-37018-02	885	1994	1109	2017-04-12	Cross Ditches	Lily Lake	Quad/ATV	Temporary
BCTS	A76781-37018-03	0	28	28	2017-04-12	Cross Ditches	Lily Lake	Quad/ATV	Temporary
BCTS	A76781-37018-03	28	168	140	2017-04-12	Cross Ditches	Lily Lake	Quad/ATV	Temporary
BCTS	A92983-06043-01	0	703	703	2018-01-07	Cross Ditches	Blair Creek	Quad/ATV	Permanent
BCTS	A92983-06043-C	0	1629	1629	2018-01-07	Cross Ditches	Blair Creek	Quad/ATV	Permanent
BCTS	A92984-45028-A	0	1008	1008	2018-01-07	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
BCTS	A92984-45028-B	0	885	885	2018-01-07	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
BCTS	A92985-45042-01	0	1292	1292	2018-03-21	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
BCTS	A92985-45042-A	0	2161	2161	2018-03-23	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
BCTS	A93055-45050-01	0	173	173	2017-10-20	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
BCTS	A93055-45050-A	0	810	810	2017-10-20	Rehabilitated	West Farrell Creek	None	Permanent
BCTS	A93055-45050-A	810	967	157	2017-10-21	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
BCTS	A93055-45050-B	0	525	525	2017-10-20	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
BCTS	A93384-45017-01	0	541	541	2017-11-13	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
BCTS	A93384-45017-02	0	111	111	2017-11-13	Cross Ditches	West Farrell Creek	Quad/ATV	Permanent
BCTS	A93384-45017-A	0	1385	1385	2017-12-14	Rehabilitated	West Farrell Creek	None	Permanent
BCTS	A93671-06071-02	0	130	130	2018-03-07	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94061-05027-A	0	1466	1466	2018-03-07	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94061-05029-01	0	537	537	2018-03-07	Cross Ditches	Aikman Creek	Quad/ATV	Permanent



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BCTS	A94061-05030-01	0	283	283	2018-03-07	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94061-05030-02	0	342	342	2018-03-07	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94061-05030-03	0	635	635	2018-03-07	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94061-05030-04	0	140	140	2018-03-07	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94061-05030-A	0	1744	1744	2018-03-07	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94061-05031-A	0	588	588	2018-03-07	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94061-05053-A	0	395	395	2018-03-07	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94062-05028-A	0	1713	1713	2018-03-07	Cross Ditches	Aikman Creek	Quad/ATV	Permanent
BCTS	A94067-03125-01	0	1141	1141	2017-04-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94067-03125-02	0	435	435	2017-04-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94067-03125-A	0	1389	1389	2017-04-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94075-06038-02	0	645	645	2018-02-24	Cross Ditches	Blair Creek	Quad/ATV	Permanent
BCTS	A94078-01026-01	0	102	102	2017-04-12	Cross Ditches	Beatton-Doig River	Quad/ATV	Permanent
BCTS	A94078-01026-02	0	529	529	2017-04-12	Cross Ditches	Beatton-Doig River	Quad/ATV	Permanent
BCTS	A94078-01026-03	0	308	308	2017-04-12	Cross Ditches	Beatton-Doig River	Quad/ATV	Permanent
BCTS	A94078-01026-04	0	385	385	2017-04-12	Cross Ditches	Beatton-Doig River	Quad/ATV	Permanent
BCTS	A94078-01026-05	0	280	280	2017-04-12	Cross Ditches	Beatton-Doig River	Quad/ATV	Permanent
BCTS	A94078-01026-06	0	583	583	2017-04-12	Cross Ditches	Beatton-Doig River	Quad/ATV	Permanent
BCTS	A94078-01026-07	0	228	228	2017-04-12	Cross Ditches	Beatton-Doig River	Quad/ATV	Permanent
BCTS	A94078-01026-A	0	2330	2330	2017-04-12	Cross Ditches	Beatton-Doig River	Quad/ATV	Permanent
BCTS	A94078-01026-B	0	455	455	2017-04-12	Cross Ditches	Beatton-Doig River	Quad/ATV	Permanent
BCTS	A94078-01026-C	0	549	549	2017-04-12	Cross Ditches	Beatton-Doig River	Quad/ATV	Permanent
BCTS	A94078-01026-D	0	191	191	2017-04-12	Cross Ditches	Beatton-Doig River	Quad/ATV	Permanent
BCTS	A94078-01026-D	191	1097	906	2017-04-12	Cross Ditches	Beatton-Doig River	Quad/ATV	Permanent
BCTS	A94078-01026-E	0	313	313	2017-04-12	Cross Ditches	Beatton-Doig River	Quad/ATV	Permanent
BCTS	A94392-03111-01	0	430	430	2017-04-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94392-03111-02	0	442	442	2017-04-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94392-03111-03	0	537	537	2017-04-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94392-03111-04	0	602	602	2017-04-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94392-03111-05	0	286	286	2017-04-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94392-03111-06	0	962	962	2017-04-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94392-03111-07	0	276	276	2017-04-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94392-03111-A	2200	3078	878	2017-04-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94392-03123-01	0	341	341	2018-01-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94392-03123-02	0	193	193	2018-01-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent



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BCTS	A94392-03123-03	0	592	592	2018-01-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94392-03123-A	0	2175	2175	2018-01-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94392-03123-B	0	1277	1277	2018-01-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94392-03123-C	0	1616	1616	2018-01-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94392-03123-D	0	922	922	2018-01-12	Cross Ditches	North Blueberry	Quad/ATV	Permanent
BCTS	A94557-24281-A	0	2231	2231	2018-02-28	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A94988-24298-01	0	584	584	2017-12-12	Cross Ditches	Jedney Creek	Quad/ATV	Permanent
BCTS	A94988-24298-A	0	2744	2744	2018-02-21	Cross Ditches	Jedney Creek	Quad/ATV	Temporary
BCTS	WSA-0052 Rd	0	1846	1846	2017-04-12	Deactivated	Linde Creek	Quad/ATV	Maint'd Inactive



## **Appendix 4: Timber Harvesting**



**Table 41: Summary of Completed Timber Harvesting by Participants (April 1, 2017 to March 31, 2018)**

<b>Participant/Licence</b>	<b>Gross Area (ha)</b>	<b>Merch Area (ha)</b>
Canfor - A18154	1,932.0	1,798.2
DZ - A56771	657.9	602.8
MPMC - A60972	849.9	764.4
LP - A60049	479.2	436.9
PVOSB - A85946	1,040.2	934.9
LP - PA 20	-	-
Canfor - PA 12	32.4	30.8
BCTS	1,401.4	1,280.1
<b>Total</b>	<b>6,393.0</b>	<b>5,848.1</b>



## **Appendix 5: Reforestation**



**Table 42: BCTS Establishment Delay Complete (Inventory Label) 2017**

Harvest Date	Opening	License	Permit	Block ID	Activity	Regen Met Date	Stratum	Area	Layer	Sp. 1	Sp 1 %	Sp. 2	Sp 2 %
10-Jan-11	94A09300 28	A82096		18004	Decid Regen Performance - FSJ	17-Jan-18	A	42.0121	I	At	100		
10-Nov-10	94B07800 24	A66539		1	Decid Regen Performance - FSJ	06-Sep-17	A	84.0097	I	Ac	70	At	30
10-Nov-10	94B07800 24	A66539		1	Decid Regen Performance - FSJ	06-Sep-17	B	4.3363	I	At	90	Sx	10
10-Nov-10	94B07800 24	A66539		1	Decid Regen Performance - FSJ	06-Sep-17	C	12.6329	I	At	70	Sx(Ep)	30
10-Nov-10	94B07800 24	A66539		1	2-Year Post Plant (C) - FSJ	06-Sep-17	A	84.0097	I	At	90	Ac	10
10-Nov-10	94B07800 24	A66539		1	2-Year Post Plant (C) - FSJ	06-Sep-17	B	4.3363	I	Ac	70	At	30
10-Nov-10	94B07800 24	A66539		1	2-Year Post Plant (C) - FSJ	06-Sep-17	C	12.6329	I	At	70	Sx(Ep)	30
03-Jan-11	94A09300 27	A82096		18003	Decid Regen Performance - FSJ	17-Jan-18	A	62.2518	I	At	100		
17-Dec-15	94A 021 042	A92978		45021	Planting(Walkthrough)	16-Aug-17	A	34.4171	I	At	70	Pli	30
17-Nov-15	94A 054 106	A90801		01176	Planting(Walkthrough)	09-Aug-17	A	2.2197	I	Pli	60	At	40
17-Nov-15	94A 054 106	A90801		01176	Planting(Walkthrough)	09-Aug-17	B	14.9455	I	At	80	Pli	20
04-Nov-13	94A07100 56	A89120		02263	Planting(Walkthrough)	13-Aug-17	A	21.2446	I	At	80	Ac(Sx)	20
04-Nov-13	94A07100 56	A89120		02263	Planting(Walkthrough)	13-Aug-17	B1	22.163	I	At	100		
04-Nov-13	94A07100 56	A89120		02263	Planting(Walkthrough)	13-Aug-17	B2	12.0461	I	At	50	Sx	50
15-Jan-03	94B06000 23	A63432		1	15 yr MSQ survey (C) - FSJ	19-Jan-18	A	14.2722	I	Sw	80	At	20
15-Jan-03	94B06000 23	A63432		1	15 yr MSQ survey (C) - FSJ	19-Jan-18	B1	2.8165	I	At	90	Pli	10
15-Jan-03	94B06000 23	A63432		1	15 yr MSQ survey (C) - FSJ	19-Jan-18	B2	8.317	I	At	80	Sx	20
07-Jan-16	94A 094 043	A92239		29016	Planting(Walkthrough)	31-Jul-17	A	152.818	I	At	70	Pli(sx)	30
07-Jan-16	94A 094 043	A92239		29016	Planting(Walkthrough)	31-Jul-17	B	32.0295	I	Pli	60	At	40
06-Feb-15	94A 073 082	A85799		02084	Decid Stocking - FSJ	10-Aug-17	A	35.375	I	At	90	Sx	10
06-Feb-15	94A 073 082	A85799		02084	Decid Stocking - FSJ	10-Aug-17	B	25.63	I	At	100		
06-Feb-15	94A 073 082	A85799		02084	Decid Stocking - FSJ	10-Aug-17	C	2.8026	I	At	80	Sx	20
04-Nov-13	94A07100 57	A89120		02264	Planting(Walkthrough)	17-Aug-17	A	17.8001	I	At	60	Sx(Act)	40
04-Nov-13	94A07100 57	A89120		02264	Planting(Walkthrough)	17-Aug-17	B	10.6757	I	At	90	Ac	10
10-Nov-10	94A09300 29	A82096		18008	Planting(Walkthrough)	08-Aug-17	A1	56.3535	I	At	70	Pli	30
10-Nov-10	94A09300 29	A82096		18008	Planting(Walkthrough)	08-Aug-17	A2	4.9908	I	Pli	80	At(Sx)	20





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18-Dec-15	94A 021 043	A92978		45023	Planting(Walkthrough)	13-Aug-17	A	24.2544	I	At	50	Pli(Sx)	50
20-Dec-14	94A 022 003	A85686		44044	Decid Stocking - FSJ	16-Aug-17	A	174.393	I	At	90	Ac	10
22-Dec-14	94A 022 004	A85687		44045	Decid Stocking - FSJ	02-Aug-17	A	127.343	I	At	90	Ac	10
07-Mar-11	94A04300 17	A63433		01083	Decid Regen Performance - FSJ	17-Jan-18	A	64.4038	I	At	80	Ac	20
15-Dec-15	94A 021 041	A92978		45020	Planting(Walkthrough)	18-Aug-17	A	24.4879	I	At	70	Pli(Sx)	30
03-Mar-15	94H 003 014	A90907		18034	Planting(Walkthrough)	07-Aug-17	A	19.0426	I	At	70	Sx(Pli)	30
03-Mar-15	94H 003 014	A90907		18034	Planting(Walkthrough)	07-Aug-17	B	2.3541	I	Sx	50	At(Pli)	50
12-Dec-14	94A 071 062	A90903		04195	Decid Stocking - FSJ	03-Sep-17	A	13.9535	I	At	70	Ac	30
12-Nov-14	94A 062 100	A89119		04244	2-Year Post Plant (C) - FSJ	14-Jul-17	A	96.1112	I	At	60	Pli	40
12-Nov-14	94A 062 100	A89119		04244	2-Year Post Plant (C) - FSJ	14-Jul-17	B1	44.3835	I	At	80	Sx	20
12-Nov-14	94A 062 100	A89119		04244	2-Year Post Plant (C) - FSJ	14-Jul-17	B2	2.4164	I	At	70	Pli	30
12-Nov-14	94A 062 100	A89119		04244	2-Year Post Plant (C) - FSJ	14-Jul-17	C	17.6085	I	At	60	Sx	40
23-Feb-15	94A 062 101	A89119		04252	2-Year Post Plant (M) - FSJ	19-Jul-17	A	8.1991	I	At	80	Pli	20
23-Feb-15	94A 062 101	A89119		04252	2-Year Post Plant (M) - FSJ	19-Jul-17	B	17.7666	I	At	80	Sx	20
18-Dec-14	94A 071 061	A90903		04194	Decid Stocking - FSJ	03-Sep-17	A	10.508	I	Ac	90	At	10
16-Nov-15	94A 094 042	A92238		29015	Planting(Walkthrough)	31-Jul-17	A	182.191	I	At	70	Sx(Pli)	30
16-Nov-15	94A 094 042	A92238		29015	Planting(Walkthrough)	31-Jul-17	B	41.6388	I	Pli	80	At(Sx)	20
03-Apr-15	94A 091 029	A90908		03104	Planting(Walkthrough)	10-Aug-17	A	66.5022	I	Pli	70	At(Sx)	30
03-Apr-15	94A 091 029	A90908		03104	Planting(Walkthrough)	10-Aug-17	B	35.2605	I	Pli	50	At(Sx)	50
25-Jan-16	94A 021 037	A92979		45016	Planting(Walkthrough)	14-Aug-17	A	34.6525	I	Sx	90	At	10
16-Feb-13	94A07200 64	A89118		04250	Planting(Walkthrough)	21-Aug-17	A	44.4714	I	At	70	Sx	30
16-Feb-13	94A07200 64	A89118		04250	Planting(Walkthrough)	21-Aug-17	B	34.8797	I	At	60	Sx(Pli)	40
01-Feb-16	94A 021 038	A92979		45057	Planting(Walkthrough)	14-Aug-17	A	19.1679	I	Sx	60	At	40
01-Feb-16	94A 021 038	A92979		45057	Planting(Walkthrough)	14-Aug-17	B	34.6199	I	Sx	70	At	30
30-Nov-07	94A08400 18	A63425		29005	Pre-MSQ Assessment (C) - FSJ	24-Jul-17	A	42.6782	I	Sw	80	Pli(Sb)	20
17-Feb-11	94A09300 39	A82094		18001	Decid Regen Performance - FSJ	17-Jan-18	A	46.431	I	At	100		
29-Jan-16	94H 003 015	A92973		18033	Planting(Walkthrough)	04-Aug-17	A	11.2471	I	At	80	Sx	20
29-Jan-16	94H 003 015	A92973		18033	Planting(Walkthrough)	04-Aug-17	B	65.7375	I	At	90	Pli	10
24-Jan-16	94A 061 053	A92970		04068	Planting(Walkthrough)	21-Aug-17	A	29.0518	I	At	60	Sx	40
24-Jan-16	94A 061 054	A92970		04066	Planting(Walkthrough)	23-Aug-17	A	33.629	I	At	70	Sx(Act)	30
11-Feb-16	94B 100 036	A76786		03045	Planting(Walkthrough)	22-Aug-17	A	15.7127	I	Sx	70	Pli(At)	30



11-Feb-16	94B 100 036	A76786		03045	Planting(Walkthrough)	22-Aug-17	B	1.6119	I	Sx	80	Pli	20
18-Feb-16	94A 021 039	A92979		45024	Planting(Walkthrough)	11-Aug-17	A	11.4473	I	Sx	60	At	40
16-Jan-17	94A 054 130	A94078		01026	Planting(Walkthrough)	08-Aug-17	A	104.865	I	At	70	Sx	30
16-Jan-17	94A 054 130	A94078		01026	Planting(Walkthrough)	08-Aug-17	B	24.0282	I	At	70	Pli	30
16-Jan-17	94A 054 130	A94078		01026	Planting(Walkthrough)	08-Aug-17	C	7.738	I	Sx	70	At	30
23-Jan-17	94A 061 064	A92972		04067	Planting(Walkthrough)	23-Aug-17	A	33.7689	I	Pli	60	At(Act)	40
18-Feb-16	94B100 000	A76786		03047	Planting(Walkthrough)	21-Aug-17	A	106.755	I	At	60	Pli(Sx)	40

**Table 43: BCTS Establishment Delay Complete (Silviculture Label) 2017**

Harvest Date	Opening	License	Permit	Block ID	Activity	Regen Met Date	Stratum	Area	Layer	Sp. 1	Sp 1 %	Sp. 2	Sp 2 %
10-Jan-11	94A09300 28	A82096		18004	Decid Regen Performance - FSJ	17-Jan-18	A	42.0121	S	At	100		
10-Nov-10	94B07800 24	A66539		1	Decid Regen Performance - FSJ	06-Sep-17	A	84.0097	S	Ac	63	At	37
10-Nov-10	94B07800 24	A66539		1	Decid Regen Performance - FSJ	06-Sep-17	B	4.3363	S	Sx	83	Pli	17
10-Nov-10	94B07800 24	A66539		1	Decid Regen Performance - FSJ	06-Sep-17	C	12.6329	S	At	100		
10-Nov-10	94B07800 24	A66539		1	2-Year Post Plant (C) - FSJ	06-Sep-17	A	84.0097	S	At	100		
10-Nov-10	94B07800 24	A66539		1	2-Year Post Plant (C) - FSJ	06-Sep-17	B	4.3363	S	Ac	63	At	37
10-Nov-10	94B07800 24	A66539		1	2-Year Post Plant (C) - FSJ	06-Sep-17	C	12.6329	S	Sx	83	Pli	17
03-Jan-11	94A09300 27	A82096		18003	Decid Regen Performance - FSJ	17-Jan-18	A	62.2518	S	At	100		
17-Dec-15	94A 021 042	A92978		45021	Planting(Walkthrough)	16-Aug-17	A	34.4171	S	Pli	73	Sx	27
17-Nov-15	94A 054 106	A90801		01176	Planting(Walkthrough)	09-Aug-17	A	2.2197	S	Pli	100		
17-Nov-15	94A 054 106	A90801		01176	Planting(Walkthrough)	09-Aug-17	B	14.9455	S	Pli	100		
04-Nov-13	94A07100 56	A89120		02263	Planting(Walkthrough)	13-Aug-17	A	21.2446	S	Sx	98	Pli	2
04-Nov-13	94A07100 56	A89120		02263	Planting(Walkthrough)	13-Aug-17	B1	22.163	S	At	98	Ac	2
04-Nov-13	94A07100 56	A89120		02263	Planting(Walkthrough)	13-Aug-17	B2	12.0461	S	Sx	100		
15-Jan-03	94B06000 23	A63432		1	15 yr MSQ survey (C) - FSJ	19-Jan-18	A	14.2722	S	Sw	98	Bl	2



15-Jan-03	94B06000 23	A63432		1	15 yr MSQ survey (C) - FSJ	19-Jan-18	B1	2.8165	S	Sw	57	Pli	43
15-Jan-03	94B06000 23	A63432		1	15 yr MSQ survey (C) - FSJ	19-Jan-18	B2	8.317	S	Sw	57	Pli	43
07-Jan-16	94A 09400 43	A92239		29016	Planting(Walkthrough)	31-Jul-17	A	152.818	S	Pli	53	Sx	47
07-Jan-16	94A 094 043	A92239		29016	Planting(Walkthrough)	31-Jul-17	B	32.0295	S	Pli	100		
06-Feb-15	94A 073 082	A85799		02084	Decid Stocking - FSJ	10-Aug-17	A	35.375	S	Sx	100		
06-Feb-15	94A 073 082	A85799		02084	Decid Stocking - FSJ	10-Aug-17	B	25.63	S	At	100		
06-Feb-15	94A 073 082	A85799		02084	Decid Stocking - FSJ	10-Aug-17	C	2.8026	S	Sx	100		
04-Nov-13	94A07100 57	A89120		02264	Planting(Walkthrough)	17-Aug-17	A	17.8001	S	Sx	100		
04-Nov-13	94A07100 57	A89120		02264	Planting(Walkthrough)	17-Aug-17	B	10.6757	S	At	90	Ac	10
10-Nov-10	94A09300 29	A82096		18008	Planting(Walkthrough)	08-Aug-17	A1	56.3535	S	Pli	65	Sw	35
10-Nov-10	94A09300 29	A82096		18008	Planting(Walkthrough)	08-Aug-17	A2	4.9908	S	Pli	96	Sw	4
18-Dec-15	94A 021 043	A92978		45023	Planting(Walkthrough)	13-Aug-17	A	24.2544	S	Pli	68	Sx	32
20-Dec-14	94A 022 003	A85686		44044	Decid Stocking - FSJ	16-Aug-17	A	174.393	I	At	90	Ac	10
22-Dec-14	94A 022 004	A85687		44045	Decid Stocking - FSJ	02-Aug-17	A	127.343	S	At	91	Ac	9
07-Mar-11	94A04300 17	A63433		01083	Decid Regen Performance - FSJ	17-Jan-18	A	64.4038	S	At	82	Ac	18
15-Dec-15	94A 021 041	A92978		45020	Planting(Walkthrough)	18-Aug-17	A	24.4879	S	Pli	74	Sx	26
03-Mar-15	94H 003 014	A90907		18034	Planting(Walkthrough)	07-Aug-17	A	19.0426	S	Sx	73	Pli	27
03-Mar-15	94H 003 014	A90907		18034	Planting(Walkthrough)	07-Aug-17	B	2.3541	S	Sx	73	Pli	27
12-Dec-14	94A 071 062	A90903		04195	Decid Stocking - FSJ	03-Sep-17	A	13.9535	S	At	69	Ac	31
12-Nov-14	94A 062 100	A89119		04244	2-Year Post Plant (C) - FSJ	14-Jul-17	A	96.1112	S	Pli	99	Sb	1
12-Nov-14	94A 062 100	A89119		04244	2-Year Post Plant (C) - FSJ	14-Jul-17	B1	44.3835	S	Sx	100		
12-Nov-14	94A 062 100	A89119		04244	2-Year Post Plant (C) - FSJ	14-Jul-17	B2	2.4164	S	Pli	100		
12-Nov-14	94A 062 100	A89119		04244	2-Year Post Plant (M) - FSJ	14-Jul-17	C	17.6085	S	Sx	67	At	33
23-Feb-15	94A 062 101	A89119		04252	2-Year Post Plant (M) - FSJ	19-Jul-17	A	8.1991	S	Pli	100		
23-Feb-15	94A 062 101	A89119		04252	2-Year Post Plant (M) - FSJ	19-Jul-17	B	17.7666	S	At	52	Sx	48
18-Dec-14	94A 071 061	A90903		04194	Decid Stocking - FSJ	03-Sep-17	A	10.508	S	Ac	67	At	33
16-Nov-15	94A 094 042	A92238		29015	Planting(Walkthrough)	31-Jul-17	A	182.191	S	Sx	57	Pli	43
16-Nov-15	94A 094 042	A92238		29015	Planting(Walkthrough)	31-Jul-17	B	41.6388	S	Pli	100		
03-Apr-15	94A 091 029	A90908		03104	Planting(Walkthrough)	10-Aug-17	A	66.5022	S	Pli	100		
03-Apr-15	94A 091 029	A90908		03104	Planting(Walkthrough)	10-Aug-17	B	35.2605	S	Pli	60	Sx	40
25-Jan-16	94A 021 037	A92979		45016	Planting(Walkthrough)	14-Aug-17	A	34.6525	S	Sx	100		



16-Feb-13	94A07200 64	A89118		04250	Planting(Walkthrough)	21-Aug-17	A	44.4714	S	Sx	97	Pli	3
16-Feb-13	94A07200 64	A89118		04250	Planting(Walkthrough)	21-Aug-17	B	34.8797	S	Sx	68	Pli	32
01-Feb-16	94A 021 038	A92979		45057	Planting(Walkthrough)	14-Aug-17	A	19.1679	S	Sx	100		
01-Feb-16	94A 021 038	A92979		45057	Planting(Walkthrough)	14-Aug-17	B	34.6199	S	Sx	100		
30-Nov-07	94A08400 18	A63425		29005	Pre-MSQ Assessment (C) - FSJ	24-Jul-17	A	42.6782	S	Sw	75	Pli	25
17-Feb-11	94A09300 39	A82094		18001	Decid Regen Performance - FSJ	17-Jan-18	A	46.431	S	At	100		
29-Jan-16	94H 003 015	A92973		18033	Planting(Walkthrough)	04-Aug-17	A	11.2471	S	Pli	97	Sx	3
29-Jan-16	94H 003 015	A92973		18033	Planting(Walkthrough)	04-Aug-17	B	65.7375	S	Sx	100		
24-Jan-16	94A 061 053	A92970		04068	Planting(Walkthrough)	21-Aug-17	A	29.0518	S	Sx	100		
24-Jan-16	94A 061 054	A92970		04066	Planting(Walkthrough)	23-Aug-17	A	33.629	S	Sx	100		
11-Feb-16	94B 100 036	A76786		03045	Planting(Walkthrough)	22-Aug-17	A	15.7127	S	Sx	77	Pli	23
11-Feb-16	94B 100 036	A76786		03045	Planting(Walkthrough)	22-Aug-17	B	1.6119	S	Sx	77	Pli	23
18-Feb-16	94A 021 039	A92979		45024	Planting(Walkthrough)	11-Aug-17	A	11.4473	S	Sx	100		
16-Jan-17	94A 054 130	A94078		01026	Planting(Walkthrough)	08-Aug-17	A	104.865	S	Sx	100		
16-Jan-17	94A 054 130	A94078		01026	Planting(Walkthrough)	08-Aug-17	B	24.0282	S	Pli	96	Sx	4
16-Jan-17	94A 054 130	A94078		01026	Planting(Walkthrough)	08-Aug-17	C	7.738	S	Sx	100		
23-Jan-17	94A 061 064	A92972		04067	Planting(Walkthrough)	23-Aug-17	A	33.7689	S	Pli	69	Sx	31
18-Feb-16	94B100 000	A76786		03047	Planting(Walkthrough)	21-Aug-17	A	106.755	S	Pli	55	Sx	45



**Table 44:** Mean MSQ by Coniferous Block - BCTS (2017)

Licence	Block	Opening Number	Block MSQ Average
A52323	1	94G 016 002	3.6
A54341	1	94G 017 005	3.7
A54341	2	94G 017 006	3.8
A60185	1	94G 008 001	3.9
A60191	1	94G 018 001	3.9
A60196	1	94A 094 031	2.9
A60204	1	94H 023 020	2.9
A60205	1	94H 023 021	3.2
A60205	1	94H 022 021	3.4
A60207	1	94H 022 020	3.5
A60511	1	94B 096 002	4.0
A63432	1	94B 060 023	3.2

**Table 45:** Mean MSQ by Deciduous Block - BCTS (2017)

Licence	Block	Opening Number	Block MSQ Average
A82100	03055	94B 100 030	3.5
A82101	03072	94G 009 034	2.3
A85686	44044	94A 022 003	3.4
A85687	44045	94A 022 004	3.3
A85799	02084	94A 073 082	3.1
A90903	04141	94A 071 067	3.4



A90903	04194	94A 071 061	3.2
A90903	04195	94A 071 062	3.5
A63400	01082	94A 053 057	3.5
A63400	01084	94A 053 058	3.4
A63433	01083	94A 043 017	2.8
A66539	1	94B 078 024	3.9
A82094	18001	94A 093 039	3.4
A82096	18003	94A 093 027	3.4
A82096	18004	94A 093 028	3.4
A63425	1	94A 084 020	3.5
A63425	29004	94A 084 019	3.7
A66555	1	94A 051 006	3.9
A6655	2	94A 051 007	3.9
A80049	38001	94H 023 022	3.9
A80049	38002	94H 023 023	3.8
A80049	38003	94H 023 024	3.8
A80049	38004	94H 023 025	3.9
A80050	29001	94A 084 017	3.9
A80051	29027	94A 084 021	3.7
A80052	29010	94A 094 033	3.7
A80053	29026	94A 093 016	3.8
A80054	29011	94A 093 013	3.7
A80054	29012	94A 093 014	3.6



**Table 46: Mean MSQ by Conifer Block - Canfor (2017)**

Licensee	License	Block	Block-Level Mean MSQ
Canadian Forest Products Ltd.	A18154	2001	4.00
Canadian Forest Products Ltd.	A18154	2002	3.97
Canadian Forest Products Ltd.	A18154	2003	3.78
Canadian Forest Products Ltd.	A18154	3004	3.90
Canadian Forest Products Ltd.	A18154	3005	4.00
Canadian Forest Products Ltd.	A18154	3011	3.98
Canadian Forest Products Ltd.	A18154	3012	3.82
Canadian Forest Products Ltd.	A18154	3013	3.90
Canadian Forest Products Ltd.	A18154	3014	3.79
Canadian Forest Products Ltd.	A18154	3015	3.95
Canadian Forest Products Ltd.	A18154	3019	3.75
Canadian Forest Products Ltd.	A18154	3024	3.95
Canadian Forest Products Ltd.	A18154	3025	3.56
Canadian Forest Products Ltd.	A18154	3026	3.93
Canadian Forest Products Ltd.	A18154	4001	3.97
Canadian Forest Products Ltd.	A18154	4002	3.94
Canadian Forest Products Ltd.	A18154	4003	3.50
Canadian Forest Products Ltd.	A18154	4009	3.85
Canadian Forest Products Ltd.	A18154	4010	3.77
Canadian Forest Products Ltd.	A18154	4011	3.82
Canadian Forest Products Ltd.	A18154	4012	4.00
Canadian Forest Products Ltd.	A18154	4013	4.00
Canadian Forest Products Ltd.	A18154	4014	3.80



Canadian Forest Products Ltd.	A18154	4015	3.99
Canadian Forest Products Ltd.	A59959	6015	3.80
Canadian Forest Products Ltd.	A60972	7001	3.88
Canadian Forest Products Ltd.	A18154	7002	3.50
Canadian Forest Products Ltd.	A60972	7003	3.64
Canadian Forest Products Ltd.	A18154	7004	4.00
Canadian Forest Products Ltd.	A18154	7005	4.00
Canadian Forest Products Ltd.	A18154	7006	3.84
Canadian Forest Products Ltd.	A18154	7007	3.88
Canadian Forest Products Ltd.	A18154	7008	3.83
Canadian Forest Products Ltd.	A18154	7009	3.73
Canadian Forest Products Ltd.	A18154	7013	3.26
Canadian Forest Products Ltd.	A18154	7016	4.00
Canadian Forest Products Ltd.	A60972	7017	4.00
Canadian Forest Products Ltd.	A60972	7018	3.85
Canadian Forest Products Ltd.	A18154	7020	3.87
Canadian Forest Products Ltd.	A18154	8001	3.97
Canadian Forest Products Ltd.	A18154	8009	3.50
Canadian Forest Products Ltd.	A18154	8010	3.64
Canadian Forest Products Ltd.	A18154	8011	4.00
Canadian Forest Products Ltd.	A18154	8012	3.65
Canadian Forest Products Ltd.	A18154	8013	3.85
Canadian Forest Products Ltd.	A18154	8014	3.63
Canadian Forest Products Ltd.	A18154	8015	3.84
Canadian Forest Products Ltd.	A18154	8016	4.00
Canadian Forest Products Ltd.	A18154	8017	3.71
Canadian Forest Products Ltd.	A18154	8018	3.80
Canadian Forest Products Ltd.	A18154	8019	3.94
Canadian Forest Products Ltd.	A18154	8020	3.36
Canadian Forest Products Ltd.	A18154	8021	3.82





Canadian Forest Products Ltd.	A18154	8022	3.75
Canadian Forest Products Ltd.	A18154	8023	3.71
Canadian Forest Products Ltd.	A18154	8024	3.60
Canadian Forest Products Ltd.	A18154	8025	3.74
Canadian Forest Products Ltd.	A18154	8026	3.80
Canadian Forest Products Ltd.	A18154	8029	3.93
Canadian Forest Products Ltd.	A18154	8030	3.86
Canadian Forest Products Ltd.	A18154	8035	3.77
Canadian Forest Products Ltd.	A18154	10001	3.75
Canadian Forest Products Ltd.	A18154	10002	3.93
Canadian Forest Products Ltd.	A18154	10003	4.00
Canadian Forest Products Ltd.	A18154	11006	3.92
Canadian Forest Products Ltd.	A18154	11008	4.00
Canadian Forest Products Ltd.	A18154	11013	4.00
Canadian Forest Products Ltd.	A59959	11014	3.94
Canadian Forest Products Ltd.	A18154	11015	3.78
Canadian Forest Products Ltd.	A18154	23001	3.72
Canadian Forest Products Ltd.	A18154	23002	3.94
Canadian Forest Products Ltd.	A18154	23003	4.00
Canadian Forest Products Ltd.	A18154	23004	4.00
Canadian Forest Products Ltd.	A18154	23005	3.55
Canadian Forest Products Ltd.	A18154	23006	4.00
Canadian Forest Products Ltd.	A18154	23007	3.50
Canadian Forest Products Ltd.	A18154	23008	3.35
Canadian Forest Products Ltd.	A18154	23009	3.91
Canadian Forest Products Ltd.	A18154	23010	3.83
Canadian Forest Products Ltd.	A18154	23019	3.96
Canadian Forest Products Ltd.	A18154	23021	4.00
Canadian Forest Products Ltd.	A18154	23022	3.50
Canadian Forest Products Ltd.	A18154	24001	3.95



Canadian Forest Products Ltd.	A18154	24002	3.96
Canadian Forest Products Ltd.	A18154	24003	4.00
Canadian Forest Products Ltd.	A18154	24004	3.97
Canadian Forest Products Ltd.	A18154	24006	3.96
Canadian Forest Products Ltd.	A60972	24007	4.00
Canadian Forest Products Ltd.	A60972	24008	3.89
Canadian Forest Products Ltd.	A59959	36038	4.00
Canadian Forest Products Ltd.	A59959	36039	3.80
Canadian Forest Products Ltd.	A59959	37001	3.86
Canadian Forest Products Ltd.	A18154	120004	1.42
Canadian Forest Products Ltd.	A18154	120005	4.00
Canadian Forest Products Ltd.	A18154	141013	4.00
Canadian Forest Products Ltd.	A18154	141014	4.00
Canadian Forest Products Ltd.	A18154	143001	3.87

**Table 47: Mean MSQ by Deciduous Block - Canfor (2017)**

Licensee	License	Block	Block-Level Mean MSQ
Canadian Forest Products Ltd.	A60049	1010	4.00
Canadian Forest Products Ltd.	A60049	1022	4.00
Canadian Forest Products Ltd.	A18154	1057	4.00
Canadian Forest Products Ltd.	PAG12	2012	3.52
Canadian Forest Products Ltd.	PAG12	2014	3.60
Canadian Forest Products Ltd.	PAG12	2017	4.00
Canadian Forest Products Ltd.	PAG12	2048	3.74
Canadian Forest Products Ltd.	PAG12	2064	3.96
Canadian Forest Products Ltd.	PAG12	2065	4.00



Canadian Forest Products Ltd.	PAG12	2067	3.94	
Canadian Forest Products Ltd.	PAG12	2072	3.99	
Canadian Forest Products Ltd.	A60050	5001	3.96	
Canadian Forest Products Ltd.	PAG12	25001	4.00	
Canadian Forest Products Ltd.	PAG12	27001	3.84	
Canadian Forest Products Ltd.	PAG12	27002	4.00	
Canadian Forest Products Ltd.	A60049	S01038	4.00	
Canadian Forest Products Ltd.	PAG12	S02003	4.00	
Canadian Forest Products Ltd.	PAG12	S02004	4.00	
Canadian Forest Products Ltd.	PAG12	S02024	3.74	
Canadian Forest Products Ltd.	PAG12	S02027	3.98	
Canadian Forest Products Ltd.	PAG12	S02030	4.00	
Canadian Forest Products Ltd.	PAG12	S02031	4.00	
Canadian Forest Products Ltd.	PAG12	S02053	3.99	
Canadian Forest Products Ltd.	PAG12	S03001	3.71	
Canadian Forest Products Ltd.	A60049	S09036	3.98	
Canadian Forest Products Ltd.	A60049	S09081	3.97	
Canadian Forest Products Ltd.	PAG12	S25006	3.95	
Canadian Forest Products Ltd.	A60050	S25068	3.74	
Canadian Forest Products Ltd.	A60049	S26016	3.98	
Canadian Forest Products Ltd.	PAG12	S27004	4.00	
Canadian Forest Products Ltd.	A60050	S45043	3.94	
Canadian Forest Products Ltd.	PAG12	27003	0.00	(Fire)
Canadian Forest Products Ltd.	PAG12	s27013	0.00	(Fire)
Canadian Forest Products Ltd.	PAG12	s27024	0.00	(Fire)
Canadian Forest Products Ltd.	PAG12	s27025	0.00	(Fire)
Canadian Forest Products Ltd.	PAG12	s27028	0.00	(Fire)



Table 48: BCTS Planting Activities (2017)

Harvest Start Date	Opening	License	Permit	Block ID	Activity	Activity Date	Area	Seed Lot #	Species	# Trees
01-Nov-98	94A02100 20	A52769		1	Fill Plant (Container) - FSJ	17-Aug-17	4.3	60455	Sx	512
01-Nov-98	94A02100 20	A52769		1	Fill Plant (Container) - FSJ	17-Aug-17		60455	Sx	5396
29-Jan-16	94B 100 035	A76786		03044	Road/Pile Plant - FSJ	22-Aug-17	2.2	60455	Sx	2060
01-Nov-98	94B 100 036	A76786		03045	Planting (Container) - FSJ	22-Aug-17	17.3	39464	Pli	8820
11-Feb-16	94B 100 036	A76786		03045	Planting (Container) - FSJ	22-Aug-17		60455	Sx	23580
18-Feb-16	94B100 000	A76786		03047	Planting (Container) - FSJ	21-Aug-17	106.8	43123	Pli	42930
18-Feb-16	94B100 000	A76786		03047	Planting (Container) - FSJ	21-Aug-17		39464	Pli	41135
18-Feb-16	94B100 000	A76786		03047	Planting (Container) - FSJ	21-Aug-17		60455	Sx	54180
18-Feb-16	94B100 000	A76786		03047	Planting (Container) - FSJ	21-Aug-17		60455	Sx	32900
27-Jul-15	94B 100 039	A76787		03048	Planting (Container) - FSJ	20-Aug-17	2.1	60455	Sx	800
16-Jun-15	94B 100 040	A76787		03049	Planting (Container) - FSJ	20-Aug-17	0.9	60455	Sx	1600
10-Nov-10	94A09300 29	A82096		18008	Fill Plant (Container) - FSJ	08-Aug-17	5.0	39464	Pli	3260
20-Dec-14	94A 022 003	A85686		44044	Road/Pile Plant - FSJ	18-Aug-17	8.0	60455	Sx	5260
22-Dec-14	94A 022 004	A85687		44045	Road/Pile Plant - FSJ	18-Aug-17	5.6	60455	Sx	5890
06-Jan-16	94A 022	A85688		44046	Road/Pile Plant - FSJ	18-Aug-17	5.8	60455	Sx	5790
16-Feb-13	94A07200 64	A89118		04250	Planting (Container) - FSJ	17-Aug-17	9.0	60455	Sx	55370
16-Feb-13	94A07200 64	A89118		04250	Planting (Container) - FSJ	17-Aug-17		60455	Sx	9400
16-Feb-13	94A07200 64	A89118		04250	Planting (Container) - FSJ	17-Aug-17	45.6	60455	Sx	1460
16-Feb-13	94A07200 64	A89118		04250	Planting (Container) - FSJ	17-Aug-17		60455	Sx	8748
31-Jan-13	94A05400 91	A89968		01279	Fill Plant (Container) - FSJ	08-Aug-17	21.5	39464	Sx	17440
31-Jan-13	94A05400 91	A89968		01279	Fill Plant (Container) - FSJ	08-Aug-17	4.6	39464	Sx	8160
21-Nov-14	94A 054 097	A90800		01280	Planting (Container) - FSJ - FRPA - Section 108	09-Aug-17	6.4	60455	Sx	7720
17-Nov-15	94A 054 106	A90801		01176	Planting (Container) - FSJ	09-Aug-17	17.2	39464	Pli	32300
02-Jan-15	94A 071 067	A90903		04141	Road/Pile Plant - FSJ	22-Jul-17	2.0	60455	Sx	20664
02-Jan-15	94A 071 067	A90903		04141	Road/Pile Plant - FSJ	22-Jul-17	2.0	39464	Pli	650



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12-Dec-14	94A 071 062	A90903		04195	Road/Pile Plant - FSJ	22-Aug-17	0.7	39464	Pli	80
03-Mar-15	94H 003 014	A90907		18034	Planting (Container) - FSJ	07-Aug-17	21.4	39464	Pli	6030
03-Mar-15	94H 003 014	A90907		18034	Planting (Container) - FSJ	07-Aug-17		39464	Pli	4470
03-Mar-15	94H 003 014	A90907		18034	Planting (Container) - FSJ	07-Aug-17		60455	Sx	23230
03-Mar-15	94H 003 014	A90907		18034	Planting (Container) - FSJ	07-Aug-17		60455	Sx	2350
03-Apr-15	94A 091 029	A90908		03104	Planting (Container) - FSJ	10-Aug-17	66.5	39464	Pli	14850
03-Apr-15	94A 091 029	A90908		03104	Planting (Container) - FSJ	10-Aug-17		43123	Pli	71190
03-Apr-15	94A 091 029	A90908		03104	Planting (Container) - FSJ	10-Aug-17	35.3	43123	Pli	6300
03-Apr-15	94A 091 029	A90908		03104	Planting (Container) - FSJ	10-Aug-17		39464	Pli	13440
03-Apr-15	94A 091 029	A90908		03104	Planting (Container) - FSJ	10-Aug-17		60455	Sx	2860
03-Apr-15	94A 091 029	A90908		03104	Planting (Container) - FSJ	10-Aug-17		60455	Sx	3100
03-Apr-15	94A 091 029	A90908		03104	Planting (Container) - FSJ	10-Aug-17		60460	Sx	760
03-Apr-15	94A 091 029	A90908		03104	Planting (Container) - FSJ	10-Aug-17		60455	Sx	12870
02-Dec-15	94A 032 008	A92231		44052	Road/Pile Plant - FSJ	17-Aug-17	4.7	39464	Pli	7780
23-Feb-16	94A 022 007	A92231		44057	Road/Pile Plant - FSJ	18-Aug-17	3.0	39464	Pli	4430
01-Dec-15	94A 052 068	A92233		01194	Road/Pile Plant - FSJ	22-Aug-17	1.3	39464	Pli	1550
10-Feb-16	94A 022 006	A92237		44061	Road/Pile Plant - FSJ	18-Aug-17	3.1	60455	Sx	7630
16-Nov-15	94A 094 042	A92238		29015	Planting (Container) - FSJ	31-Jul-17	182.2	39464	Pli	152800
16-Nov-15	94A 094 042	A92238		29015	Planting (Container) - FSJ	31-Jul-17		60455	Sx	2715
16-Nov-15	94A 094 042	A92238		29015	Planting (Container) - FSJ	31-Jul-17		60455	Sx	144905
16-Nov-15	94A 094 042	A92238		29015	Planting (Container) - FSJ	31-Jul-17	41.6	39464	Pli	57935
16-Nov-15	94A 094 042	A92238		29015	Planting (Container) - FSJ	31-Jul-17	152.8	39464	Pli	57935
07-Jan-16	94A 094 043	A92239		29016	Planting (Container) - FSJ	31-Jul-17		60460	Sx	110535
07-Jan-16	94A 094 043	A92239		29016	Planting (Container) - FSJ	31-Jul-17		60455	Sx	5355
07-Jan-16	94A 094 043	A92239		29016	Planting (Container) - FSJ	31-Jul-17	32.0	39464	Pli	52455
24-Jan-16	94A 061 053	A92970		29020	Planting (Container) - FSJ	21-Aug-17	1.4	39464	Pli	1600
10-Nov-15	94A 094 041	A92242		29021	Road/Pile Plant - FSJ	02-Aug-17	1.0	39464	Pli	2050
10-Nov-15	94H 004 038	A92819		18030	Road/Pile Plant - FSJ	03-Aug-17	1.4	39464	Pli	2610
10-Nov-15	94H 004 038	A92819		29019	Road/Pile Plant - FSJ	03-Aug-17	0.7	39464	Pli	1600
10-Nov-15	94H 004 038	A92819		29023	Road/Pile Plant - FSJ	03-Aug-17	10.5	39464	Pli	16400
24-Jan-16	94A 061 054	A92970		04066	Planting (Container) - FSJ	23-Aug-17	33.6	60455	Sx	51610



24-Jan-16	94A 061 053	A92970		04068	Planting (Container) - FSJ	21-Aug-17	29.1	60455	Sx	42350
16-Dec-15	94A 061 055	A92971		04065	Road/Pile Plant - FSJ	20-Aug-17	1.2	39464	Pli	1090
16-Dec-15	94A 061 056	A92971		04161	Road/Pile Plant - FSJ	20-Aug-17	0.7	39464	Pli	480
21-Jan-16	94A 061 057	A92971		04165	Road/Pile Plant - FSJ	22-Aug-17	0.1	39464	Pli	290
12-Jan-16	94A 061 058	A92971		04190	Road/Pile Plant - FSJ	20-Aug-17	2.2	39464	Pli	1440
23-Jan-17	94A 061 064	A92972		04067	Planting (Container) - FSJ	23-Aug-17	35.8	39464	Pli	42505
23-Jan-17	94A 061 064	A92972		04067	Planting (Container) - FSJ	23-Aug-17		60455	Sx	13148
29-Jan-16	94H 003 015	A92973		18033	Planting (Container) - FSJ	04-Aug-17	35.1	39464	Pli	62500
29-Jan-16	94H 003 015	A92973		18033	Planting (Container) - FSJ	04-Aug-17	5.4	60460	Sx	9470
15-Dec-15	94A 021 041	A92978		45020	Planting (Container) - FSJ	18-Aug-17	24.5	39464	Pli	25330
15-Dec-15	94A 021 041	A92978		45020	Planting (Container) - FSJ	18-Aug-17		60455	Sx	10350
17-Dec-15	94A 021 042	A92978		45021	Planting (Container) - FSJ	16-Aug-17	34.4	39464	Pli	34540
17-Dec-15	94A 021 042	A92978		45021	Planting (Container) - FSJ	16-Aug-17		60455	Sx	14850
18-Dec-15	94A 021 043	A92978		45023	Planting (Container) - FSJ	13-Aug-17	24.3	39464	Pli	26430
18-Dec-15	94A 021 043	A92978		45023	Planting (Container) - FSJ	13-Aug-17		60455	Sx	11715
25-Jan-16	94A 021 037	A92979		45016	Planting (Container) - FSJ	14-Aug-17	34.7	60455	Sx	34300
25-Jan-16	94A 021 037	A92979		45016	Planting (Container) - FSJ	14-Aug-17		60455	Sx	15250
18-Feb-16	94A 021 039	A92979		45024	Planting (Container) - FSJ	11-Aug-17	11.5	60455	Sx	17418
01-Feb-16	94A 021 038	A92979		45057	Planting (Container) - FSJ	14-Aug-17	53.7	60455	Sx	30020
01-Feb-16	94A 021 038	A92979		45057	Planting (Container) - FSJ	14-Aug-17		60455	Sx	36280
01-Feb-16	94A 021 038	A92979		45057	Planting (Container) - FSJ	14-Aug-17		60460	Sx	5355
15-Sep-16	94B 090 034	A93058		06090	Planting (Container) - FSJ	22-Aug-17	17.1	60455	Sx	5490
16-Jan-17	94A 054 130	A94078		01026	Planting (Container) - FSJ	08-Aug-17	105.2	60455	SX	172410
16-Jan-17	94A 054 130	A94078		01026	Planting (Container) - FSJ	08-Aug-17	24.5	39464	Pli	40860
<b>Total</b>							<b>1,299</b>			<b>1,893,321</b>



**Table 49: Predicted and Target Volumes by Stratum for Coniferous - BCTS 2017**

Block Strata Summary	Stratum	Net Area (ha)	Mean SI	Mean EA	Mean MSQ	Mean TSS	PMV/ha	Tot PMV	Target MSQ	Target EA	TMV/ha	Total TMV	PMV % of Target
A52323-1 (B) A60196-1 (A,C) A60204-1 (A) A60205-1 (A) A63432-1 (B1)	Pl/WG/17-19/1200-1400	127.1	19.9	14.1	2.9	1,200	455.0	57,829	3.7	14.0	466.5	59,293	97.5%
A54341-2 (A) A60185-1 (B) A60191-1 (A)	Pl/WG/19-21/1200-1400	49.5	19.0	14.2	3.9	1,200	448.5	22,203	3.7	14.0	423.8	20,977	105.8 %
A54341-1 (A) A60185-1 (A) A60191-1 (B)	Pl/WG/21-23/1200-1400	99.1	21.2	13.3	3.7	1,200	548.8	54,391	3.7	14.0	524.0	51,927	104.7 %
A60206-1 (A,B) A60207-1 (A) A60196-1 (B)	PISx/WG/19-21/1200-1400	90.4	21.7	17.3	3.5	1,200	615.2	55,618	3.7	14.0	575.2	51,996	107.0 %
A63432-1 (B2) A60511-1 (B) A63432-1 (A)	Sx/SR/17-19/1200-1400	34.3	21.8	16.6	1.9	1,200	494.9	16,977	3.7	14.0	615.9	21,127	80.4%
A60511-1 (B) A63432-1 (A)	Sx/WG/17-19/1200-1400	24.4	23.3	14.6	3.5	1,200	726.9	17,736	3.7	14.0	695.1	16,959	104.6 %
A60511-1 (A)	Sx/WG/19-21/1200-1400	12.3	22.9	17.9	4.0	1,200	732.7	9,012	3.7	14.0	674.0	8,290	108.7 %
A52323-1 (A)	Sx/WG/21-23/1200-1400	27.1	23.1	15.7	3.4	1,200	717.3	19,440	3.7	14.0	684.6	18,553	104.8 %
	<b>Totals</b>	<b>464.2</b>	<b>21.0</b>	<b>15.0</b>	<b>3.3</b>	<b>1,200</b>	<b>545.5</b>	<b>253,205</b>	<b>3.7</b>	<b>14.0</b>	<b>536.7</b>	<b>249,121</b>	<b>101.6 %</b>



**Table 50: Predicted and Target Volumes by Stratum for Deciduous - BCTS 2017**

Block Strata Summary	Stratum	Net Area (ha)	Mean SI	Mean EA	Mean MSQ	Mean TSS	PMV/ha	Tot PMV	Target MSQ	Target EA	TMV/ha	Total TMV	PMV % of Target
A80051 (A)	At/WG/15-17/4000-4200	55.4	23.3	3.85	4,000	411.7	22,807	3.78	370.0	20,501	111.3%	At/WG/15-17/4000-4200	55.4
A80050 (A) A63425 (A) A80052 (B) A80052 (A) A80054 (B) A80053 (A) A80049 (A) A80049 (A) A80049 (A) A80049 (A) A63425 (B) A66555 (A) A66555 (A)	At/WG/17-19/4000-4200	661.2	24.5	3.80	4,000	450.1	297,595	3.78	404.9	267,741	111.2%	At/WG/17-19/4000-4200	661.2
	<b>Totals</b>	<b>716.6</b>	<b>24.4</b>	<b>3.80</b>	<b>4,000</b>	<b>447.1</b>	<b>320,402</b>	<b>3.78</b>	<b>402.2</b>	<b>288,242</b>	<b>111.2%</b>	<b>Totals</b>	<b>716.6</b>





**Table 51: Predicted and Target Volumes by Conifer Stratum-Canfor 2017**

**PREDICTED AND TARGET VOLUMES BY STRATUM**

Stratum	Net Area (ha)	Mean SI (m)	Mean EA (years)	Mean MSQ (#)	Mean TSS (tr/ha)	Mean PMV (m <sup>3</sup> /ha)	Total PMV (m <sup>3</sup> )	Target MSQ (#)	Target EA (years)	Mean TMV (m <sup>3</sup> /ha)	Total TMV (m <sup>3</sup> )	PMV % of Target
PI/WG/14-16/1200-1400	163.2	15.8	15.5	3.9	1,197	288.9	47,142	3.7	14.0	270.4	44,122	106.8%
PI/WG/16-18/1200-1400	176.9	17.2	14.8	4.0	1,200	359.9	63,666	3.7	14.0	338.3	59,852	106.4%
PI/WG/18-20/1200-1400	358.2	18.1	14.9	3.8	1,196	403.5	144,517	3.7	14.0	379.9	136,078	106.2%
PI/WG/20-22/1200-1400	266.4	20.6	13.7	3.9	1,200	525.5	139,997	3.7	14.0	497.8	132,620	105.6%
PI/WG/22-24/1000-1200	22.5	22.5	11.7	4.0	1,000	611.1	13,751	3.5	14.0	578.9	13,026	105.6%
PI/WG/22-24/1200-1400	226.6	20.4	12.7	3.9	1,200	513.9	116,442	3.7	14.0	489.9	111,009	104.9%
PI/WG/24-26/1200-1400	51.4	19.2	14.9	3.9	1,184	459.3	23,608	3.7	14.0	431.1	22,159	106.5%
PISx/WG/12-14/1200-1400	49.3	12.1	18.0	3.9	1,182	114.2	5,631	3.7	14.0	104.9	5,173	108.8%
PISx/WG/16-18/1000-1200	59.1	19.0	17.1	4.0	998	478.5	28,278	3.5	14.0	436.8	25,815	109.5%
PISx/WG/16-18/1200-1400	195.6	19.1	16.1	3.9	1,200	478.9	93,669	3.7	14.0	446.3	87,290	107.3%
PISx/WG/18-20/1200-1400	423.0	19.2	15.1	3.9	1,200	481.0	203,453	3.7	14.0	451.3	190,892	106.6%
PISx/WG/20-22/1000-1200	48.4	20.8	17.1	3.9	1,000	573.5	27,758	3.5	14.0	524.2	25,372	109.4%
PISx/WG/20-22/1200-1400	265.2	20.5	16.0	3.8	1,200	554.1	146,949	3.7	14.0	517.4	137,226	107.1%
PISx/WG/22-24/1200-1400	239.8	22.8	15.0	3.8	1,200	670.6	160,799	3.7	14.0	630.0	151,066	106.4%
PISx/WG/24-26/1200-1400	76.5	23.3	13.9	3.8	1,200	689.4	52,743	3.7	14.0	653.0	49,953	105.6%
PISx/WG/26-28/1000-1200	58.5	25.7	14.1	3.7	1,000	813.7	47,604	3.5	14.0	763.3	44,655	106.6%
Sx/WG/16-18/1000-1200	42.9	18.7	20.8	3.9	966	500.1	21,454	3.4	14.0	445.1	19,095	112.4%
Sx/WG/18-20/1000-1200	106.1	21.8	17.6	3.8	1,000	665.3	70,587	3.5	14.0	607.0	64,401	109.6%
Sx/WG/18-20/1200-1400	140.5	20.8	17.1	3.9	1,200	610.8	85,818	3.7	14.0	565.3	79,428	108.0%
Sx/WG/18-20/800-1000	11.6	19.1	14.3	3.9	800	503.6	5,842	3.1	14.0	453.5	5,260	111.1%
Sx/WG/20-22/1000-1200	28.4	21.9	16.3	3.8	1,000	669.6	19,016	3.5	14.0	616.9	17,520	108.5%
Sx/WG/20-22/1200-1400	206.6	22.0	17.3	3.8	1,200	675.5	139,563	3.7	14.0	625.0	129,129	108.1%
Sx/WG/22-24/1000-1200	118.3	23.9	16.7	3.8	1,000	781.1	92,405	3.5	14.0	718.7	85,019	108.7%
Sx/WG/22-24/1200-1400	38.0	23.9	16.3	3.8	1,200	777.8	29,558	3.7	14.0	725.0	27,551	107.3%
Sx/WG/22-24/800-1000	15.1	22.2	15.2	3.6	800	673.0	10,163	3.1	14.0	608.5	9,188	110.6%
Sx/WG/24-26/1000-1200	21.8	25.3	16.1	3.6	1,000	847.9	18,485	3.5	14.0	788.2	17,183	107.6%
Sx/WG/24-26/1200-1400	82.5	25.5	15.8	3.8	1,200	867.2	71,546	3.7	14.0	811.4	66,944	106.9%
Sx/WG/24-26/800-1000	20.9	25.8	16.3	3.6	800	880.6	18,404	3.1	14.0	789.0	16,491	111.6%
Sx/WG/26-28/1200-1400	66.5	27.0	15.7	3.6	1,160	942.2	62,659	3.7	14.0	886.5	58,950	106.3%
Sx/WG/28-30/1200-1400	54.5	28.7	14.9	3.7	1,157	1,035.8	56,452	3.7	14.0	976.5	53,220	106.1%
<b>Totals</b>	<b>3,634.3</b>	<b>20.5</b>	<b>15.4</b>	<b>3.9</b>	<b>1,164</b>	<b>555.3</b>	<b>2,017,957</b>	<b>3.7</b>	<b>14.0</b>	<b>518.9</b>	<b>1,885,689</b>	<b>107.0%</b>



**Table 52: Predicted and Target Volumes by Deciduous Stratum – Canfor 2017**

**PREDICTED AND TARGET VOLUMES BY STRATUM**

Stratum	Net Area (ha)	Mean SI (m)	Mean MSQ (#)	Mean TSS (tr/ha)	Mean PMV (m <sup>3</sup> /ha)	Total PMV (m <sup>3</sup> )	Target MSQ (#)	Mean TMV (m <sup>3</sup> /ha)	Total TMV (m <sup>3</sup> )	PMV % of Target
At/WG/15-17/10000-10200	32.5	18.4	4.00	10,000	216.6	7,038	3.96	194.9	6,333	111.1%
At/WG/17-19/10000-10200	1,927.2	21.3	3.44	10,000	328.3	632,650	3.96	301.7	581,412	108.8%
<b>Totals</b>	<b>1,959.7</b>	<b>21.2</b>	<b>3.45</b>	<b>10,000</b>	<b>326.4</b>	<b>639,688</b>	<b>3.96</b>	<b>299.9</b>	<b>587,745</b>	<b>108.8%</b>



**Table 53: Licensee Participant Planting Activities 2017**

<u>Licence</u>	<u>Permit</u>	<u>Block ID</u>	<u>Planting Activity</u>	<u>Planting Start Date</u>	<u>Planted Area (ha)</u>	<u>Seedlot</u>	<u># of Trees</u>
A56771	112	01166	Planting - Establishment	07/20/2017	62.0	63592	82890
A56771	112	01166	Planting - Establishment	07/20/2017	62.0	31310	10260
A18154	424	01180	Planting - Establishment	06/28/2017	4.0	48556	1485
A18154	424	01180	Planting - Establishment	06/28/2017	4.0	31310	4320
A56771	112	01196	Planting - Establishment	07/18/2017	39.0	53765	13890
A56771	112	01196	Planting - Establishment	07/18/2017	39.0	31310	41790
A60049	980	01210	Planting - Establishment	07/12/2017	46.0	31310	33000
A60049	980	01210	Planting - Establishment	07/12/2017	46.0	63592	40500
A60972	964	01211	Planting - Burn Piles	07/18/2017	2.0	53765	1080
A60049	963	01212	Planting - Establishment	07/10/2017	33.0	63592	39060
A60049	963	01212	Planting - Establishment	07/10/2017	33.0	63592	10530
A60049	963	01213	Planting - Establishment	07/06/2017	41.0	31310	23445
A60049	963	01213	Planting - Establishment	07/06/2017	41.0	31310	7830
A60049	963	01213	Planting - Establishment	07/06/2017	41.0	63592	27840
A18154	974	01271	Planting - Establishment	07/26/2017	4.0	53765	1350
A18154	974	01271	Planting - Establishment	07/26/2017	4.0	63592	3780



A18154	974	01272	Planting - Establishment	07/26/2017	22.0	63592	23955
A18154	974	01272	Planting - Establishment	07/26/2017	22.0	53765	7830
A18154	977	01284	Planting - Establishment	07/25/2017	55.0	53765	25230
A18154	977	01284	Planting - Establishment	07/25/2017	55.0	63592	49725
A18154	424	01318	Planting - Establishment	06/30/2017	13.0	31310	13770
A18154	424	01318	Planting - Establishment	06/30/2017	13.0	48556	4725
A18154	443	01319	Planting - Establishment	07/23/2017	27.0	63592	28185
A18154	443	01319	Planting - Establishment	07/23/2017	27.0	53765	9330
A18154	443	01320	Planting - Establishment	07/01/2017	25.0	48556	8775
A18154	443	01320	Planting - Establishment	07/01/2017	25.0	31310	26205
A18154	443	01322	Planting - Establishment	06/28/2017	16.0	31310	15915
A18154	443	01322	Planting - Establishment	06/28/2017	16.0	48556	5400
A18154	445	01323	Planting - Establishment	06/28/2017	10.0	31310	13500
A18154	444	01330	Planting - Establishment	07/02/2017	2.0	31310	3240
A18154	424	01331	Planting - Establishment	07/02/2017	3.0	31310	1890
A18154	424	01331	Planting - Establishment	07/02/2017	3.0	48556	1800
A18154	444	01332	Planting - Establishment	07/02/2017	4.0	31310	5130
A18154	424	01333	Planting - Establishment	06/30/2017	13.0	31310	14040
A18154	424	01333	Planting - Establishment	06/30/2017	13.0	48556	5175



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A18154	967	02023	Planting - Establishment	07/17/2017	31.0	31310	31995
A18154	967	02023	Planting - Establishment	07/17/2017	31.0	53765	10680
A18154	523	02024	Planting - Establishment	07/28/2017	34.0	63592	47610
A56771	946	02053	Planting - Establishment	07/10/2017	138.0	31310	94020
A56771	946	02053	Planting - Establishment	07/10/2017	138.0	53765	92595
PAG12	APR-89518	02160	Planting - Fill Plant	07/02/2017	7.0	53765	4500
A18154	763	02245	Planting - Fill Plant	07/08/2017	4.0	31310	3135
A18154	962	02299	Planting - Establishment	07/07/2017	39.0	53765	50025
A18154	962	02299	Planting - Establishment	07/07/2017	9.0	31310	3285
A18154	960	02300	Planting - Establishment	07/04/2017	46.0	53765	2475
A18154	960	02300	Planting - Establishment	07/04/2017	46.0	48556	38850
A18154	960	02300	Planting - Establishment	07/04/2017	46.0	31310	16155
A18154	967	02301	Planting - Establishment	07/21/2017	22.0	63592	28530
A56771	990	03036	Planting - Establishment	07/12/2017	25.0	53765	8880
A56771	990	03036	Planting - Establishment	07/12/2017	25.0	31310	24975
A18154	968	03041	Planting - Establishment	07/18/2017	25.0	31310	33135
A18154	948	03042	Planting - Establishment	07/19/2017	65.0	31310	18870
A18154	948	03042	Planting - Establishment	07/19/2017	65.0	63592	21225
A18154	948	03042	Planting - Establishment	07/19/2017	65.0	53765	54390
A60972	956	03108	Planting - Establishment	07/06/2017	11.0	63592	12720



A18154	957	03112	Planting - Establishment	06/27/2017	98.0	63592	25515
A18154	957	03112	Planting - Establishment	06/27/2017	98.0	48556	61785
A18154	957	03112	Planting - Establishment	06/27/2017	98.0	53765	36525
A59959	939	03119	Planting - Burn Piles	07/08/2017	1.0	31310	3780
A60972	941	03121	Planting - Establishment	07/06/2017	160.0	48556	15510
A60972	941	03121	Planting - Establishment	07/06/2017	160.0	31310	102030
A60972	941	03121	Planting - Establishment	07/06/2017	160.0	53765	88830
A56771	971	03130	Planting - Establishment	07/06/2017	17.0	53765	11610
A56771	971	03130	Planting - Establishment	07/06/2017	17.0	31310	11610
A18154	969	03131	Planting - Establishment	07/21/2017	1.0	31310	1890
A56771	409	03132	Planting - Establishment	07/16/2017	4.0	31310	3240
A56771	409	03132	Planting - Establishment	07/16/2017	4.0	53765	3090
A18154	961	04037	Planting - Burn Piles	07/23/2017	2.0	63592	1680
A18154	236	04038	Planting - Burn Piles	07/23/2017	0.0	63592	540
A18154	961	04042	Planting - Burn Piles	07/23/2017	2.0	63592	1575
A18154	236	04044	Planting - Burn Piles	07/23/2017	0.0	63592	255
A56771	987	04069	Planting - Establishment	07/26/2017	18.0	53765	6945
A56771	987	04069	Planting - Establishment	07/26/2017	18.0	63592	18510
A56771	973	04098	Planting - Establishment	07/24/2017	16.0	53765	15195
A56771	973	04098	Planting - Establishment	07/24/2017	16.0	63592	4890
A60049	749	04169	Planting - Burn Piles	07/23/2017	0.0	63592	450
A18154	912	05007	Planting - Fill Plant	07/03/2017	2.0	31310	2460



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A18154	912	05008	Planting - Fill Plant	07/03/2017	44.0	31310	18480
A18154	912	05008	Planting - Fill Plant	07/03/2017	44.0	53765	19245
A18154	913	05009	Planting - Fill Plant	07/03/2017	3.0	31310	3255
A56771	954	05120	Planting - Establishment	06/29/2017	62.0	63677	22050
A56771	954	05120	Planting - Establishment	06/29/2017	62.0	63592	17955
A56771	954	05120	Planting - Establishment	06/29/2017	64.0	48556	46260
A60049	955	05121	Planting - Establishment	07/02/2017	25.0	63592	30945
A18154	922	06029	Planting - Establishment	07/14/2017	6.0	53765	9720
PAG20	APR-93942	06030	Planting - Establishment	07/18/2017	28.0	63592	37110
PAG20	APR-93942	06030	Planting - Establishment	07/18/2017	28.0	31310	1875
A18154	981	06052	Planting - Establishment	07/14/2017	139.0	63592	67485
A18154	981	06052	Planting - Establishment	07/14/2017	139.0	31310	87735
A18154	981	06052	Planting - Establishment	07/14/2017	139.0	53765	53565
A18154	984	06064	Planting - Establishment	07/26/2017	37.0	63592	51735
A18154	976	06068	Planting - Establishment	07/23/2017	73.0	63592	89355
A18154	976	06068	Planting - Establishment	07/23/2017	73.0	53765	17250
A18154	975	06078	Planting - Establishment	07/05/2017	106.0	31310	74010
A18154	975	06078	Planting - Establishment	07/05/2017	106.0	53765	73875
A56771	945	06083	Planting - Establishment	07/01/2017	15.0	53765	14040
A56771	945	06083	Planting - Establishment	07/01/2017	15.0	31310	4050



A18154	979	06093	Planting - Establishment	07/16/2017	73.0	53765	48165
A18154	979	06093	Planting - Establishment	07/16/2017	73.0	31310	49770
A18154	969	06096	Planting - Establishment	07/14/2017	34.0	31310	23415
A18154	969	06096	Planting - Establishment	07/14/2017	34.0	53765	22065
A18154	979	06097	Planting - Establishment	07/15/2017	34.0	53765	12105
A18154	979	06097	Planting - Establishment	07/15/2017	34.0	31310	35625
A18154	257	09031	Planting - Fill Plant	06/29/2017	96.0	31310	49950
A18154	257	09031	Planting - Fill Plant	06/29/2017	96.0	53765	50655
A18154	280	09067	Planting - Burn Piles	07/02/2017	1.0	31310	1620
A56771	320	10015	Planting - Establishment	06/24/2017	37.0	31310	48300
A56771	320	10016	Planting - Burn Piles	07/02/2017	1.0	31310	1350
A56771	330	10017	Planting - Establishment	07/02/2017	30.0	31310	41850
A56771	330	12018	Planting - Establishment	06/24/2017	93.0	63677	96705
A56771	330	12018	Planting - Establishment	06/24/2017	93.0	53765	8325
A56771	330	12018	Planting - Establishment	06/24/2017	93.0	48556	24885
A18154	942	18029	Planting - Burn Piles	07/25/2017	0.0	53765	500
A18154	943	18039	Planting - Burn Piles	07/25/2017	1.0	53765	2605
A18154	947	18040	Planting - Burn Piles	07/24/2017	4.0	63592	9270
A18154	440	18041	Planting - Burn Piles	07/23/2017	7.0	63592	12615
A18154	986	18044	Planting - Establishment	06/24/2017	126.0	63677	31500
A18154	986	18044	Planting - Establishment	06/24/2017	126.0	53765	33075
A18154	986	18044	Planting - Establishment	06/24/2017	126.0	48556	28575





A18154	986	18044	Planting - Establishment	06/24/2017	126.0	63592	76860
A60972	258	19041	Planting - Fill Plant	06/20/2017	8.0	31310	2370
A60972	258	19041	Planting - Fill Plant	06/20/2017	8.0	63592	4095
A60972	258	19043	Planting - Burn Piles	06/20/2017	1.0	53765	2250
A56771	734	19049	Planting - Burn Piles	06/20/2017	2.0	63592	1890
A56771	734	19049	Planting - Burn Piles	06/20/2017	2.0	53765	360
A56771	734	19050	Planting - Burn Piles	06/20/2017	1.0	53765	660
A56771	734	19051	Planting - Burn Piles	06/20/2017	4.0	53765	4125
A56771	734	19053	Planting - Burn Piles	06/20/2017	1.0	53765	1440
A56771	734	19054	Planting - Burn Piles	06/20/2017	1.0	53765	660
A56771	734	19055	Planting - Burn Piles	06/20/2017	2.0	53765	1980
A18154	675	19072	Planting - Establishment	06/12/2017	48.0	53765	49125
A18154	675	19072	Planting - Establishment	06/12/2017	48.0	31310	16200
A60972	668	24011	Planting - Fill Plant	07/07/2017	18.0	31310	10650
A60972	668	24011	Planting - Fill Plant	07/07/2017	18.0	48556	11025
A56771	930	24033	Planting - Burn Piles	07/27/2017	3.0	53765	2895
A59959	608	24035	Planting - Establishment	06/12/2017	25.0	31310	7770
A59959	608	24035	Planting - Establishment	06/12/2017	25.0	53765	26475
A59959	608	24038	Planting - Establishment	06/18/2017	26.0	53765	19470
A59959	608	24038	Planting - Establishment	06/18/2017	26.0	31310	17010
A59959	608	24039	Planting - Establishment	06/16/2017	36.0	53765	50820
A59959	608	24040	Planting - Establishment	06/20/2017	11.0	53765	16335
A60049	660	24041	Planting - Establishment	06/20/2017	8.0	53765	10725
A59959	606	24042	Planting - Burn Piles	07/19/2017	2.0	53765	2640
A56771	661	24051	Planting - Establishment	06/11/2017	57.0	53765	75570



A56771	661	24051	Planting - Establishment	06/11/2017	57.0	60455	11550
A59959	608	24060	Planting - Establishment	06/16/2017	81.0	31310	29160
A59959	608	24060	Planting - Establishment	06/16/2017	81.0	53765	82830
A18154	663	24282	Planting - Establishment	06/12/2017	65.0	53765	65745
A18154	663	24282	Planting - Establishment	06/12/2017	65.0	60455	14700
A18154	663	24282	Planting - Establishment	06/12/2017	65.0	31310	6870
A18154	662	24292	Planting - Establishment	06/17/2017	58.0	53765	67290
A18154	662	24292	Planting - Establishment	06/17/2017	58.0	31310	14850
A18154	662	24294	Planting - Establishment	06/19/2017	4.0	53765	5940
A18154	738	25018	Planting - Establishment	07/10/2017	114.0	53765	38880
A18154	738	25018	Planting - Establishment	07/10/2017	114.0	63592	122040
A18154	933	25019	Planting - Establishment	07/06/2017	16.0	63592	11070
A18154	933	25019	Planting - Establishment	07/06/2017	16.0	53765	11070
A18154	929	25037	Planting - Establishment	07/06/2017	62.0	63592	90180
A18154	400	27031	Planting - Establishment	07/18/2017	20.0	31310	28950
A18154	424	27039	Planting - Establishment	07/04/2017	12.0	31310	16845
A60972	446	27040	Planting - Establishment	07/04/2017	17.0	31310	24615
A18154	445	27042	Planting - Establishment	06/29/2017	62.0	31310	85740
A18154	444	27049	Planting - Establishment	06/28/2017	17.0	31310	24870



A18154	445	27063	Planting - Establishment	07/18/2017	65.0	31310	92580
A18154	266	44063	Planting - Establishment	07/01/2017	71.0	31310	99510
A60049	259	45035	Planting - Establishment	06/01/2017	74.0	31310	47520
A60049	259	45035	Planting - Establishment	06/01/2017	74.0	63592	64260
A60049	270	45047	Planting - Establishment	07/28/2017	188.0	63592	268500
A18154	278	45061	Planting - Establishment	07/25/2017	98.0	63592	40860
A18154	278	45061	Planting - Establishment	07/25/2017	98.0	53765	95715
A18154	961	S04054	Planting - Burn Piles	07/23/2017	1.0	53765	1155
A18154	669	S24033	Planting - Establishment	06/18/2017	28.0	53765	20460
A18154	669	S24033	Planting - Establishment	06/18/2017	28.0	63592	1890
A18154	669	S24033	Planting - Establishment	06/18/2017	28.0	31310	16470
PAG20	APR-94109	S24059	Planting - Establishment	07/18/2017	12.0	31310	4320
PAG20	APR-94109	S24059	Planting - Establishment	07/18/2017	12.0	53765	12150
					<b>7303.0</b>		<b>4927740</b>



**Table 54: Establishment Delay Report – Inventory Layer – Licensee Participants 2017**

<u>Harvest Start Date</u>	<u>Licensee</u>	<u>Licence</u>	<u>CP</u>	<u>Block ID</u>	<u>Regen Delay Met Date</u>	<u>Stratum Name</u>	<u>Stratum Area (ha)</u>	<u>Species 1</u>	<u>% 1</u>	<u>Species 2</u>	<u>% 2</u>	<u>Species 3</u>	<u>% 3</u>
07/19/2014	CANFOR	PAG12	APR-90208	01113	05/16/2016	A	24.2	At	90	Act	10		
07/23/2014	CANFOR	PAG12	APR-90208	01116	05/17/2016	A	7.1	Act	100				
07/23/2014	CANFOR	PAG12	APR-90208	01116	05/17/2016	B	56.5	At	90	Act	10		
07/25/2014	CANFOR	PAG12	APR-90208	01122	07/11/2016	A	21.8	At	63	Act	37		
02/24/2015	CANFOR	A18154	781	01175	06/22/2016	a	29.3	Pli	50	Sx	50		
02/09/2015	CANFOR	A18154	781	01178	06/23/2016	a	2.6	Sx	100				
02/09/2015	CANFOR	A18154	400	01179	06/22/2016	a2	24.5	Pli	100				
02/09/2015	CANFOR	A18154	400	01179	06/23/2016	a_fire	35.8	Pli	50	Sx	50		
07/15/2015	MPMC	A60972	964	01211	07/21/2016	a	40.8	Pli	100				
11/05/2013	CANFOR	A18154	927	02106	07/04/2016	A	5.1	At	100				
11/07/2013	CANFOR	PAG12	APR-90598	02108	07/04/2016	A	4.5	At	100				
11/11/2013	CANFOR	PAG12	APR-90598	02109	07/04/2016	A	3.7	At	100				
11/07/2013	CANFOR	PAG12	APR-90598	02111	09/08/2016	A	3.1	At	100				
11/26/2013	MPMC	A60972	103	02120	09/08/2016	B	12.8	At	100				
11/25/2013	CANFOR	PAG12	APR-90322	02135	09/08/2016	A	13.4	At	100				
11/05/2012	CANFOR	A18154	789	02150	06/27/2016	b	3.1	Sx	100				
08/15/2012	CANFOR	PAG12	APR-90294	02198	06/27/2016	c	3.4	Sx	100				
04/05/2013	CANFOR	PAG12	APR-90578	02204	07/05/2016	A	75.9	At	95	Ep	5		



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01/15/2013	CANFOR	PAG12	APR-89528	02239	07/06/2016	A	25.7	At	100				
02/01/2013	LP	A60049	771	02240	07/06/2016	A	8.6	At	100				
04/06/2015	CANFOR	A18154	924	02248	07/01/2016	B	11.9	Pli	100				
06/18/2014	CANFOR	A18154	935	02249	07/01/2016	a_pl2016	1.5	Pli	100				
09/05/2013	CANFOR	PAG12	APR-91324	02250	07/05/2016	A	1.5	At	100				
01/15/2013	CANFOR	PAG12	APR-90958	02291	07/06/2016	A	41.6	At	100				
11/02/2015	CANFOR	A56771	970	03098	07/01/2016	a	11.5	Pli	75	Sx	25		
09/12/2014	CANFOR	A56771	938	03106	07/01/2016	a1	148.1	Pli	75	Sx	25		
10/02/2015	CRL	A59959	939	03119	07/01/2016	a1	65.6	Sx	100				
10/02/2015	CRL	A59959	939	03119	07/20/2016	a2	18.8	Sx	60	Pli	40		
10/02/2015	CRL	A59959	939	03119	07/20/2016	b	11.9	Sx	60	Pli	40		
06/23/2014	CRL	A59959	728	03120	07/19/2016	a_pl16	140.6	Pli	70	Sx	30		
06/23/2014	CRL	A59959	728	03120	07/19/2016	b_pl16	3.1	Pli	70	Sx	30		
11/03/2015	MPMC	A60972	941	03121	09/20/2016	a_pl2016	12.5	Sx	65	Pli	35		
11/03/2015	MPMC	A60972	941	03121	09/20/2016	b_pl2016	24.0	Sx	65	Pli	35		
11/24/2015	CANFOR	A18154	961	04037	06/23/2016	a	59.5	Pli	50	Sx	50		
11/26/2015	CANFOR	A18154	236	04038	07/01/2016	a	13.4	Sx	100				
11/10/2015	CANFOR	A18154	961	04042	07/05/2016	a	59.6	Sx	100				
11/03/2015	CANFOR	A18154	236	04044	07/01/2016	a	9.3	Pli	50	Sx	50		
01/28/2013	LP	A60049	799	04111	09/06/2016	A	33.2	At	100				
11/16/2015	LP	A60049	749	04169	07/01/2016	a	12.5	Pli	75	Sx	25		
12/15/2014	CANFOR	A18154	733	04218	07/01/2016	a	12.1	Pli	50	Sx	50		
12/15/2014	CANFOR	A18154	733	04219	07/01/2016	a	2.3	Pli	50	Sx	50		
11/27/2006	LP	A60050	272	05003	10/31/2016	A	151.6	At	100				
02/12/2007	LP	A60050	188	05005	10/31/2016	A	119.0	At	90	Act	10		
03/24/2015	CANFOR	A56771	953	05013	07/05/2016	a_pl2015	79.8	Sx	60	Pli	40		
03/24/2015	CANFOR	A56771	953	05013	07/05/2016	a_pl2016	134.2	Pli	100				
07/23/2013	LP	A60049	796	05023	08/03/2016	A	66.5	At	100				
07/23/2013	LP	A60049	796	05023	08/03/2016	B	35.3	At	100				
09/01/2013	LP	A60049	796	05024	07/18/2016	A	8.5	At	100				
10/05/2013	LP	A60049	796	05058	05/20/2016	A	34.3	At	73	Act	27		
10/20/2013	LP	A60049	796	05059	05/20/2016	A	12.8	At	100				



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10/05/2013	LP	A60049	794	05060	07/12/2016	A	71.1	At	100				
02/15/2013	LP	A60049	794	05108	09/20/2016	A	18.6	At	98	Act	2		
09/01/2015	CANFOR	A56771	954	05120	07/10/2016	a	45.1	Sx	60	Pli	40		
09/01/2015	LP	A60049	955	05121	07/17/2016	a1	154.5	Sx	60	Pli	40		
09/01/2015	LP	A60049	955	05121	07/17/2016	b	15.4	Sx	60	Pli	40		
04/05/2013	CANFOR	A56771	605	05129	08/31/2016	A	28.7	At	100				
06/18/2014	CANFOR	A18154	934	06027	07/01/2016	b_pl16	69.6	Sx	100				
06/18/2014	CANFOR	A18154	934	06027	07/01/2016	c_pl16	9.2	Sx	100				
04/06/2015	CANFOR	A18154	959	06033	07/19/2016	a1	18.9	Sx	100				
04/06/2015	CANFOR	A18154	959	06033	07/19/2016	a2	173.7	Pli	50	Sx	50		
08/06/2013	LP	A60049	900	06051	10/31/2016	a	283.2	At	90	Act	10		
03/20/2014	CANFOR	A18154	919	06053	10/31/2016	a	96.6	At	100				
11/26/2013	CANFOR	A18154	921	06063	09/03/2016	B	26.8	At	90	Ac	10		
11/05/2015	CANFOR	A56771	945	06083	07/01/2016	a_pl16	19.3	Pli	100				
11/05/2015	CANFOR	A56771	945	06083	07/01/2016	b_pl16	22.5	Pli	100				
03/26/2013	CANFOR	PAG12	APR-90759	06088	09/14/2016	A	71.1	At	100				
01/15/2002	CANFOR	A18154	630	07010	10/31/2016	A	8.2	Ep	60	Sw	30	Pli	10
01/10/2002	CANFOR	A18154	630	07011	10/31/2016	B	3.2	Sw	100				
01/14/2002	CANFOR	A18154	630	07012	10/31/2016	A	45.9	Sw	60	Ep	40		
01/14/2002	CANFOR	A18154	630	07012	10/31/2016	B	5.2	Sw	80	Ep	20		
01/14/2002	CANFOR	A18154	630	07012	10/31/2016	C	3.6	Sw	40	Pli	30	Ep	20
11/02/2014	CANFOR	A18154	261	09029	06/28/2016	A1	34.2	At	70	Sw	20	Ep	10
11/02/2014	CANFOR	A18154	261	09029	06/28/2016	B1	24.8	At	40	Sw	30	Ep	20
11/02/2014	CANFOR	A18154	261	09029	06/28/2016	a_pl2016	34.2	Sx	100				
11/02/2014	CANFOR	A18154	261	09029	06/28/2016	b_pl2016	24.8	Sx	100				
03/24/2014	CANFOR	A18154	263	09033	06/26/2016	A	119.1	At	80	Ep	10	Pli	10
03/24/2014	CANFOR	A18154	263	09033	06/26/2016	B1	40.8	At	90	Pli	10		
03/24/2014	CANFOR	A18154	263	09033	06/26/2016	a_pl2016	10.5	Sx	100				
03/24/2014	CANFOR	A18154	263	09033	06/26/2016	b_pl2016	9.1	Sx	100				
02/23/2016	CANFOR	A18154	280	09067	07/03/2016	a	33.6	Sx	100				
01/20/2014	LP	A85946	260	09077	09/01/2016	A	50.6	At	90	Ac	10		
01/20/2014	LP	A85946	260	09077	09/01/2016	B	18.6	At	90	Ac	10		
11/15/2013	LP	A85946	256	09080	09/03/2016	B	33.6	At	90	Ac	10		



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12/20/2013	LP	A85946	256	09082	09/03/2016	A	13.6	At	100				
01/20/2014	LP	A85946	256	09088	09/03/2016	A1	28.6	At	80	Ac	20		
01/20/2014	LP	A85946	256	09088	09/03/2016	A2	1.4	Ac	70	At	30		
01/20/2014	LP	A85946	256	09088	09/03/2016	B	6.8	Ac	50	At	50		
09/15/2013	LP	A85946	256	09095	06/16/2016	A	94.5	At	90	Act	10		
12/01/2015	CANFOR	A56771	320	10015	07/05/2016	a_pl2016	17.4	Sx	100				
12/01/2015	CANFOR	A56771	320	10015	07/05/2016	b_pl2016	13.0	Sx	100				
01/11/2016	CANFOR	A56771	320	10016	07/03/2016	a	28.1	Sx	75	Pli	25		
01/11/2016	CANFOR	A56771	320	10016	07/03/2016	b	12.6	Sx	75	Pli	25		
12/08/2015	CANFOR	A56771	330	10017	07/03/2016	a_pl2016	61.0	Sx	100				
07/01/2015	LP	A85946	334	10036	10/31/2016	1	198.4	At	100				
05/07/2011	CANFOR	PAG12	APR-87547	18007	06/25/2016	fp	23.8	Sx	100				
10/23/2015	CANFOR	A18154	942	18029	07/13/2016	a	8.3	Pli	75	Sx	25		
11/03/2015	CANFOR	A18154	943	18039	07/13/2016	a	47.9	Pli	100				
01/04/2016	CANFOR	A18154	947	18040	07/10/2016	a	75.8	Pli	50	Sx	50		
01/04/2016	CANFOR	A18154	947	18040	07/10/2016	b	62.4	Pli	50	Sx	50		
11/15/2015	CANFOR	A18154	440	18041	07/13/2016	a	157.6	Sx	75	Pli	25		
11/15/2015	CANFOR	A18154	440	18041	07/13/2016	b	77.6	Sx	75	Pli	25		
12/28/2015	CANFOR	A56771	930	24033	07/01/2016	a	82.7	Pli	75	Sx	25		
10/07/2015	CRL	A59959	606	24042	07/01/2016	a	48.4	Pli	70	Sx	30		
10/09/2014	CANFOR	A18154	932	24209	07/01/2016	con	163.1	Pli	50	Sx	50		
10/01/2014	CANFOR	A18154	931	24213	07/01/2016	a	86.1	Pli	50	Sx	50		
10/01/2014	CANFOR	A18154	931	24213	07/01/2016	b	19.9	Pli	50	Sx	50		
11/11/2013	CANFOR	A18154	929	25037	08/14/2016	A1	199.7	At	100				
11/11/2013	CANFOR	A18154	929	25037	08/14/2016	A2	2.5	Ac	90	At	10		
06/05/2013	LP	A60049	780	45052	08/18/2016	A	58.1	At	80	Ac	20		
08/04/2010	CANFOR	PAG12	APR-87683	S02037	06/27/2016	fp	25.7	Sx	100				
01/25/2010	CANFOR	PAG12	APR-86665	S02089	06/28/2016	b	19.9	Sx	100				
09/23/2015	CANFOR	A18154	961	S04054	07/01/2016	a	24.8	Pli	100				
01/10/2013	CANFOR	PAG12	APR-90794	S24136	09/17/2016	A	4.7	At	100				



**Table 55: BCTS establishment delay calculation for reporting period of April 1, 2017 to March 31, 2018**

<b>Conifer</b>					
<b>Harvest Start Date</b>	<b>Net Area to be Reforested (NAR)</b>	<b>Cut Block #</b>	<b>TSL</b>	<b># of days from harvest start through reporting period of March 31, 2018</b>	<b># Days * NAR</b>
2017-02-20	10.3	37017	A76781	404	4161.2
2017-02-20	2.1	37017	A76781	404	848.4
2017-02-27	48.4	37018	A76781	397	19214.8
2017-02-27	7.4	37018	A76781	397	2937.8
2017-02-27	1.9	37018	A76781	397	754.3
2017-02-14	3.5	37019	A76781	410	1435
2017-02-14	0.7	37019	A76781	410	287
2017-03-10	13.7	37020	A76781	386	5288.2
2017-03-10	4.4	37020	A76781	386	1698.4
2017-02-08	8.0	37021	A76781	416	3328
2017-02-08	15.5	03070	A76786	782	12121
2017-12-12	6.3	20069	A80058	109	686.7
2017-12-12	18.2	20069	A80058	109	1983.8
2017-12-12	39.8	20070	A80058	109	4338.2
2017-12-12	23.9	20070	A80058	109	2605.1
2017-01-23	33.8	04067	A92972	432	14601.6
2016-01-29	11.3	18033	A92973	792	8949.6
2016-01-29	65.7	18033	A92973	792	52034.4
2016-12-23	38.1	03114	A92974	463	17640.3
2016-12-15	79.8	24205	A92976	471	37585.8
2016-12-15	14.5	24205	A92976	471	6829.5
2017-12-18	47.6	24255	A92977	103	4902.8
2017-12-18	22.4	24255	A92977	103	2307.2
2016-01-25	34.7	45016	A92979	796	27621.2
2017-02-24	5.6	02268	A92980	400	2240
2017-02-24	71.3	03100	A92980	400	28520
2017-10-16	45.6	45028	A92984	165	7524
2017-10-16	10.0	45028	A92984	165	1650
2018-01-23	66.2	45042	A92985	68	4501.6
2016-10-17	12.7	45039	A93052	530	6731
2016-09-15	17.1	06090	A93058	562	9610.2
2017-09-29	35.0	45017	A93384	182	6370
2017-09-29	10.5	45017	A93384	182	1911





2016-12-30	14.4	24249	A93439	456	6566.4
2016-12-30	17.2	24249	A93439	456	7843.2
2016-12-30	11.1	24269	A93439	486	5394.6
2016-12-23	5.6	24270	A93439	463	2592.8
2016-12-23	1.8	24270	A93439	463	833.4
2017-01-16	37.4	24261	A93549	439	16418.6
2017-01-16	40.3	24261	A93549	439	17691.7
2016-11-07	27.9	06071	A93671	509	14201.1
2016-11-19	18.1	06075	A93671	497	8995.7
2016-11-19	13.5	06075	A93671	497	6709.5
2017-02-22	4.5	02267	A93999	402	1809
2018-02-06	17.4	05027	A94061	55	957
2017-01-24	24.3	05029	A94061	67	1628.1
2017-11-20	68.9	05030	A94061	131	9025.9
2018-02-13	5.9	05031	A94061	48	283.2
2018-02-11	2.9	05053	A94061	50	145
2017-01-06	64.9	03125	A94067	449	29140.1
2016-11-23	38.7	03118	A94068	493	19079.1
2016-11-23	42.2	03118	A94068	493	20804.6
2017-02-23	62.5	03111	A94392	401	25062.5
2017-02-23	84.6	03111	A94392	401	33924.6
2017-01-27	12.0	03123	A94392	424	5088
2017-01-27	101.3	03123	A94392	424	42951.2
2017-02-27	20.3	27004	A94642	397	8059.1
2017-02-27	3.8	27004	A94642	397	1508.6
2017-02-27	19.5	27004	A94642	397	7741.5
2017-01-05	15.4	24248	A93439	450	6930
2016-11-30	14.4	24249	A93439	486	6998.4
2016-11-30	17.2	24249	A93439	486	8359.2
2016-11-30	19.6	24269	A93439	486	9525.6
2016-11-30	11.1	24269	A93439	486	5394.6
2016-11-30	5.6	24270	A93439	486	2721.6
2016-11-30	1.8	24270	A93439	486	874.8
2017-01-02	58.6	03043	A93670	453	26545.8
2017-01-02	37.2	03043	A93670	453	16851.6
2017-02-20	21.8	1	A94642	404	8807.2
2017-02-20	5.1	1	A94642	404	2060.4
2014-11-21	8.2	01280	A90800	1,226	10053.2
2015-01-02	35.3	04141	A90903	1,184	41795.2
2017-02-22	17.0	02267	A93999	402	6834
2017-02-15	48.6	27005	A94642	409	19877.4
2017-02-15	13.5	27005	A94642	409	5521.5
2017-01-16	104.9	01026	A94078	435	45631.5
2017-01-16	24.0	01026	A94078	435	10440
2017-01-16	7.7	01026	A94078	435	3349.5



2018-01-05	8.3	24280	A94557	86	713.8
2018-01-05	8.2	24280	A94557	86	705.2
2018-01-05	13.3	24281	A94557	86	1143.8
2018-01-05	3.4	24281	A94557	86	292.4
2017-12-12	37.6	24298	A94988	109	4098.4
2017-11-19	57.8	06040	A92983	132	7629.6
2017-11-08	47.0	06043	A92983	143	6721
2017-08-28	22.9	45050	A93055	143	3274.7
2017-12-11	24.3	06038	A94075	110	2673
2017-12-11	6.1	06038	A94075	110	671
<b>Totals</b>	<b>2,283</b>			<b>33,142</b>	<b>864,167</b>
				Weighted number of days	378.5
				Weighted number of years	1.04
<b>Deciduous</b>					
<b>Harvest Start Date</b>	<b>Net Area to be Reforested (NAR)</b>	<b>Cut Block #</b>	<b>TSL</b>	<b># of days from harvest start through reporting period of March 31, 2017</b>	<b># days * NAR</b>
2015-01-19	40.2	03072	A82101	1,167	46,913
2013-11-25	33.3	09026	A85684	1,587	52,847
2014-11-01	7.4	01202	A90800	1,246	9,220
2014-11-21	3.2	01280	A90800	1,226	3,923
2014-11-30	26.0	01281	A90800	1,217	31,642
2015-01-02	30.4	04141	A90903	1,184	35,994
2014-12-18	10.5	04194	A90903	1,199	12,590
2015-03-03	20.0	18034	A90907	1,124	22,480
2015-12-02	101.6	44052	A92231	850	86,360
2016-02-23	57.3	44057	A92231	767	43,949
2016-02-10	62.6	44061	A92237	780	48,828
2016-02-10	44.4	44061	A92237	780	34,632
2015-12-12	17.4	04064	A92970	840	14,616
2016-01-24	3.2	04068	A92970	797	2,550
2016-01-12	5.4	04190	A92971	809	4,369
2017-02-08	6.2	24355	A92976	416	2,579
2015-01-26	10.2	03055	A82100	1,160	11,832
2016-02-08	10.6	03070	A76786	782	8,289
2015-12-01	49.7	01194	A92233	851	42,295
2015-12-07	65.9	01195	A92234	845	55,686
2016-01-19	34.1	01214	A92234	802	27,348
2016-01-05	65.9	01215	A92234	816	53,774
2016-01-24	20.5	04066	A92970	797	16,339
2016-10-17	104.8	45039	A93052	530	55,544



2016-09-15	87.4	06090	A93058	562	49,119
2016-01-06	133.7	44046	A85688	815	108,966
2015-02-11	17.2	18062	A90907	1,144	19,677
2016-12-15	51.0	24205	A92976	471	24,021
2017-11-19	30.3	06040	A92983	132	4,000
2017-11-08	11.4	06043	A92983	143	1,630
2017-08-28	10.6	45050	A93055	213	2,258
2017-12-11	105.6	06038	A94075	110	11,616
2017-12-11	39.1	06038	A94075	110	4,301
<b>Totals</b>	<b>1,317.0</b>			<b>26,272</b>	<b>950,187</b>
				Weighted number of days	721.5
				Weighted number of years	1.9
<b>Mixedwood</b>					
<b>Harvest Start Date</b>	<b>Net Area to be Reforested (NAR)</b>	<b>Cut Block #</b>	<b>TSL</b>	<b># of days from harvest start through reporting period of March 31, 2017</b>	<b># days * NAR</b>
2013-11-27	22.7	02261	A89120	1,585	35,980
<b>Totals</b>	<b>22.7</b>			<b>1,588</b>	<b>35,980</b>
				Weighted number of days	1588
				Weighted number of years	4.3

**Table 56: Licensee Participants conifer establishment delay calculation for reporting period of April 1, 2017 to March 31, 2018**

<u>License</u>	<u>Permit</u>	<u>Cut Block</u>	<u>SU ID</u>	<u>Current Declaration</u>	<u>Harvest Start Date</u>	<u>SU NAR</u>	<u>Regen Met</u>	<u>Regen Days</u>	<u>Regen Days x SU NAR</u>
A18154	169	04028	A	C	12/18/2012	8.5	N	1929	16396.5
A18154	169	04028	B	C	12/18/2012	5.4	N	1929	10416.6
A18154	261	09034	A	C	01/16/2018	45.1	N	74	3337.4
A18154	261	09034	B	C	01/16/2018	32.4	N	74	2397.6
A18154	261	09078	A	C	07/01/2017	5.9	N	273	1610.7
A18154	278	45067	A	C	07/01/2017	5.9	N	273	1610.7
A18154	280	09070	A	C	01/07/2018	8.2	N	83	680.6
A18154	369	10025	A	C	02/17/2018	72.8	N	42	3057.6
A18154	426	03095	A	C	09/26/2017	61.5	N	186	11439.0
A18154	444	27035	B	C	01/10/2017	18.0	N	445	8010.0



A18154	450	25061	A	C	03/10/2017	0.6	N	386	231.6
A18154	450	25064	A	C	03/11/2017	3.6	N	385	1386.0
A18154	450	25072	A	C	03/12/2017	3.3	N	384	1267.2
A18154	450	31005	A	C	02/20/2017	1.7	N	404	686.8
A18154	450	31023	A	C	02/20/2017	2.0	N	404	808.0
A18154	451	31003	A	C	02/24/2017	19.2	N	400	7680.0
A18154	451	31016	A	C	02/20/2017	17.3	N	404	6989.2
A18154	451	31017	A	C	02/20/2017	21.5	N	404	8686.0
A18154	451	31019	A	C	02/28/2017	1.7	N	396	673.2
A18154	454	02274	A	C	03/03/2018	8.5	N	28	238.0
A18154	454	02275	A	C	03/28/2018	64.2	N	3	192.6
A18154	502	04125	A	C	08/18/2017	30.1	N	225	6772.5
A18154	502	04127	A	C	07/01/2017	43.3	N	273	11820.9
A18154	507	06076	A	C	03/06/2018	3.0	N	25	75.0
A18154	507	06085	A	C	03/06/2018	38.7	N	25	967.5
A18154	522	06056	A	C	02/21/2017	23.3	N	403	9389.9
A18154	522	06056	B	C	02/21/2017	3.0	N	403	1209.0
A18154	523	02025	A	C	04/06/2017	72.5	N	359	26027.5
A18154	528	02041	A	C	07/24/2017	68.5	N	250	17125.0
A18154	530	04033	A	C	07/01/2017	24.7	N	273	6743.1
A18154	530	04034	A	C	12/07/2017	4.2	N	114	478.8
A18154	533	09023	A	C	02/12/2018	33.9	N	47	1593.3
A18154	533	09023	B	C	02/12/2018	15.2	N	47	714.4
A18154	536	19037	A	C	01/09/2018	21.2	N	81	1717.2
A18154	536	19100	A	C	01/17/2018	6.7	N	73	489.1
A18154	538	04260	A	C	03/28/2018	23.7	N	3	71.1
A18154	539	01305	A	C	02/16/2018	80.9	N	43	3478.7
A18154	539	01305	B	C	02/16/2018	22.7	N	43	976.1
A18154	539	23046	A	C	02/02/2018	61.9	N	57	3528.3
A18154	543	19024	A	C	01/15/2018	35.0	N	75	2625.0
A18154	545	04265	A	C	03/14/2018	30.9	N	17	525.3
A18154	600	19031	A	C	11/10/2016	113.4	N	506	57380.4
A18154	600	19078	A	C	11/29/2016	32.2	N	487	15681.4
A18154	600	19080	A	C	12/23/2016	48.4	N	463	22409.2
A18154	600	19081	A	C	12/06/2016	27.3	N	480	13104.0
A18154	663	24282	A	C	12/08/2015	34.2	N	844	28864.8
A18154	663	24282	B	C	12/08/2015	31.0	N	844	26164.0
A18154	664	S24050	A	C	11/07/2016	5.2	N	509	2646.8
A18154	667	24227	A	C	11/25/2016	6.2	N	491	3044.2
A18154	670	S24049	A	C	11/14/2016	61.6	N	502	30923.2
A18154	671	24285	A	C	12/14/2017	40.8	N	107	4365.6
A18154	671	24286	A	C	12/18/2017	16.6	N	103	1709.8
A18154	672	24288	A	C	11/27/2017	17.6	N	124	2182.4
A18154	673	19079	A	C	11/22/2016	12.8	N	494	6323.2
A18154	674	24317	A	C	09/23/2017	208.2	N	189	39349.8
A18154	678	19029	A	C	11/29/2017	120.9	N	122	14749.8



A18154	678	19036	A	C	01/03/2018	2.0	N	87	174.0
A18154	678	19036	B	C	01/03/2018	4.6	N	87	400.2
A18154	678	19075	A	C	10/30/2017	35.7	N	152	5426.4
A18154	683	24037	A	C	12/11/2017	54.3	N	110	5973.0
A18154	683	24037	B	C	12/11/2017	39.9	N	110	4389.0
A18154	683	24310	A	C	12/29/2017	48.8	N	92	4489.6
A18154	685	19027	A	C	11/11/2017	23.1	N	140	3234.0
A18154	685	19027	B	C	11/11/2017	6.3	N	140	882.0
A18154	685	19028	A	C	11/17/2017	46.8	N	134	6271.2
A18154	795	01009	A	C	02/26/2017	16.0	N	398	6368.0
A18154	795	01011	A	C	03/01/2017	6.8	N	395	2686.0
A18154	795	01012	A	C	03/02/2017	6.5	N	394	2561.0
A18154	809	23070	A	C	02/23/2017	88.6	N	401	35528.6
A18154	965	02253	A	C	08/07/2017	18.7	N	236	4413.2
A18154	965	02256	A	C	08/29/2017	18.0	N	214	3852.0
A18154	966	02257	A	C	08/11/2017	44.0	N	232	10208.0
A18154	966	02258	A	C	11/07/2016	8.9	N	509	4530.1
A18154	966	04137	A	C	10/15/2016	94.9	N	532	50486.8
A18154	997	02090	A	C	03/06/2017	48.7	N	390	18993.0
A56771	453	01259	A	C	01/29/2018	39.3	N	61	2397.3
A56771	455	01268	B	C	02/26/2018	43.0	N	33	1419.0
A56771	456	29109	A	C	02/22/2018	84.0	N	37	3108.0
A56771	524	03091	A	C	06/27/2017	18.0	N	277	4986.0
A56771	525	04075	A	C	03/31/2017	64.1	N	365	23396.5
A56771	525	04088	A	C	07/19/2017	5.8	N	255	1479.0
A56771	526	04089	A	C	03/25/2017	28.9	N	371	10721.9
A56771	532	06024	A	C	08/30/2017	73.6	N	213	15676.8
A56771	532	06024	B	C	08/30/2017	25.9	N	213	5516.7
A56771	534	23115	A	C	01/31/2018	14.3	N	59	843.7
A56771	544	04278	A	C	03/20/2018	49.6	N	11	545.6
A56771	665	24061	A	C	11/13/2017	57.8	N	138	7976.4
A56771	666	24062	A	C	11/29/2017	71.3	N	122	8698.6
A56771	666	24065	A	C	12/18/2017	14.1	N	103	1452.3
A56771	666	24066	A	C	01/04/2018	9.7	N	86	834.2
A56771	983	04076	A	C	11/06/2016	13.8	N	510	7038.0
A56771	983	04076	B	C	11/06/2016	8.2	N	510	4182.0
A56771	983	04241	A	C	09/20/2017	4.3	N	192	825.6
A56771	983	04241	B	C	09/20/2017	12.8	N	192	2457.6
A56771	985	04084	A	C	11/21/2016	18.4	N	495	9108.0
A56771	985	04084	B	C	11/21/2016	4.8	N	495	2376.0
A56771	987	04070	A	C	09/28/2016	45.8	N	549	25144.2
A56771	987	04070	B	C	09/28/2016	5.5	N	549	3019.5
A56771	987	04071	A	C	10/20/2016	52.1	N	527	27456.7
A60049	259	45035	C	C	01/30/2014	136.7	N	1521	207920.7
A60049	300	S04032	C	C	12/06/2006	17.8	N	4133	73567.4
A60049	423	02188	B	C	09/11/2017	7.0	N	201	1407.0



A60049	704	01022	B	C	01/07/2008	24.8	N	3736	92652.8
A60972	529	02066	A	C	09/04/2017	43.5	N	208	9048.0
A60972	529	02147	A	C	02/19/2018	14.8	N	40	592.0
A60972	949	18053	A	C	11/28/2017	88.4	N	123	10873.2
A60972	949	18054	A	C	08/11/2017	63.9	N	232	14824.8
A60972	949	18054	B	C	08/11/2017	3.8	N	232	881.6
A60972	951	18052	A	C	09/29/2017	36.4	N	183	6661.2
A60972	951	18052	B	C	09/29/2017	3.8	N	183	695.4
A60972	951	18056	A	C	01/26/2018	39.2	N	64	2508.8
A60972	951	18057	A	C	12/18/2017	99.8	N	103	10279.4
A60972	952	18055	A	C	09/08/2017	90.9	N	204	18543.6
A85946	283	44047	B	C	10/16/2017	29.5	N	166	4897.0
A85946	448	01233	B	C	03/20/2018	7.3	N	11	80.3
A85946	449	01235	B	C	11/16/2017	25.4	N	135	3429.0
A85946	452	01260	B	C	02/05/2018	25.9	N	54	1398.6
PAG12	APR-91509	01117	B	C	08/02/2014	19.2	N	1337	25670.4
						<b>SU NAR Total</b>	<b>3,982.9</b>		1280478.5
						<b>Weighted Regen Days</b>	<b>321.494</b>	<b>days</b>	
						<b>Weighted Regen Days</b>	<b>0.880806</b>	<b>years</b>	

**Table 57: Licensee Participants deciduous establishment delay calculation for reporting period of April 1, 2017 to March 31, 2018**

<u>License</u>	<u>Permit</u>	<u>Cut Block</u>	<u>SU ID</u>	<u>Current Declaration</u>	<u>Harvest Start Date</u>	<u>SU NAR</u>	<u>Regen Met</u>	<u>Regen Days</u>	<u>Regen Days x SU NAR</u>
A18154	269	09086	A	D	03/07/2018	49.3	N	24	1183.2
A18154	401	27033	A	D	11/11/2014	14.3	N	1236	17674.8
A18154	424	27050	A	D	01/19/2017	2.8	N	436	1220.8
A18154	424	27051	A	D	01/19/2017	1.4	N	436	610.4
A18154	424	27052	A	D	01/19/2017	2.0	N	436	872.0
A18154	424	27053	A	D	02/20/2017	1.1	N	404	444.4
A18154	424	27054	A	D	02/20/2017	5.0	N	404	2020.0
A18154	424	27055	A	D	02/10/2017	5.2	N	414	2152.8
A18154	424	27065	A	D	03/01/2017	0.6	N	395	237.0
A18154	424	27066	A	D	01/24/2017	5.1	N	431	2198.1
A18154	426	03092	B	D	07/11/2017	6.5	N	263	1709.5
A18154	440	18027	A	D	11/01/2015	42.7	N	881	37618.7
A18154	444	27034	A	D	12/16/2016	215.0	N	470	101050.0



A18154	444	27035	A	D	01/10/2017	65.5	N	445	29147.5
A18154	444	27036	A	D	01/26/2017	62.4	N	429	26769.6
A18154	444	27046	A	D	11/30/2016	131.0	N	486	63666.0
A18154	444	27048	A	D	01/26/2017	25.3	N	429	10853.7
A18154	445	01321	A	D	01/11/2017	12.7	N	444	5638.8
A18154	445	01334	A	D	01/19/2017	2.9	N	436	1264.4
A18154	445	27061	A	D	11/15/2016	26.7	N	501	13376.7
A18154	445	27068	A	D	01/26/2017	17.1	N	429	7335.9
A18154	450	25066	A	D	03/15/2017	10.4	N	381	3962.4
A18154	454	02274	B	D	03/03/2018	1.3	N	28	36.4
A18154	530	04211	A	D	01/20/2018	156.7	N	70	10969.0
A18154	538	04260	B	D	03/28/2018	69.2	N	3	207.6
A18154	678	19036	C	D	01/03/2018	3.2	N	87	278.4
A18154	921	06067	B	D	10/26/2013	74.8	N	1617	120951.6
A18154	965	02256	B	D	08/29/2017	21.8	N	214	4665.2
A56771	453	01257	B	D	01/14/2018	26.3	N	76	1998.8
A60049	204	45048	A	D	02/15/2014	241.2	N	1505	363006.0
A60049	259	45035	A	D	01/30/2014	277.7	N	1521	422381.7
A60049	267	44068	A	D	03/01/2017	41.5	N	395	16392.5
A60049	423	02188	A	D	09/11/2017	15.1	N	201	3035.1
A60049	660	S24028	A	D	11/18/2015	44.5	N	864	38448.0
A60049	677	19098	A	D	11/18/2016	14.2	N	498	7071.6
A60049	718	43054	A	D	02/06/2018	16.7	N	53	885.1
A60049	736	43053	A	D	01/01/2018	6.3	N	89	560.7
A60049	736	43055	A	D	01/09/2018	160.9	N	81	13032.9
A60049	736	43056	A	D	12/13/2017	59.2	N	108	6393.6
A60049	741	43076	A	D	02/23/2015	12.2	N	1132	13810.4
A60049	741	43077	A	D	02/23/2015	115.2	N	1132	130406.4
A60049	743	43057	A	D	09/29/2015	36.2	N	914	33086.8
A60049	743	43058	A	D	09/29/2015	1.9	N	914	1736.6
A60049	743	43059	A	D	10/14/2015	4.3	N	899	3865.7
A60049	743	43060	A	D	09/24/2015	7.8	N	919	7168.2
A60049	743	43061	B	D	09/21/2015	0.3	N	922	276.6
A60049	743	43062	A	D	09/15/2015	9.1	N	928	8444.8
A60049	794	05025	A	D	02/15/2013	215.9	N	1870	403733.0
A60049	808	23034	A	D	03/23/2018	1.5	N	8	12.0
A60049	925	01167	A	D	08/03/2015	23.3	N	971	22624.3
A60049	940	05052	A	D	03/15/2015	25.6	N	1112	28467.2
A60049	940	05055	A	D	03/07/2015	31.4	N	1120	35168.0
A60049	942	06062	A	D	10/16/2017	83.0	N	166	13778.0
A60049	942	06062	B	D	10/16/2017	44.0	N	166	7304.0
A60049	944	06073	A	D	11/15/2017	22.6	N	136	3073.6
A60049	944	06073	B	D	11/15/2017	20.2	N	136	2747.2
A60049	958	04171	A	D	11/21/2015	10.2	N	861	8782.2
A60049	982	02163	A	D	07/08/2016	133.6	N	631	84301.6
A60049	996	23089	A	D	02/22/2018	2.6	N	37	96.2





A60049	996	23091	A	D	02/23/2018	7.0	N	36	252.0
A60049	996	23092	A	D	02/20/2018	6.0	N	39	234.0
A60972	446	27043	A	D	03/15/2017	11.4	N	381	4343.4
A60972	446	27045	A	D	03/15/2017	4.1	N	381	1562.1
A60972	446	27047	A	D	01/27/2017	156.5	N	428	66982.0
A60972	446	27056	A	D	02/21/2017	6.5	N	403	2619.5
A60972	446	27064	A	D	02/17/2017	3.4	N	407	1383.8
A60972	446	27067	A	D	01/24/2017	9.4	N	431	4051.4
A60972	446	27071	A	D	11/15/2016	47.0	N	501	23547.0
A60972	529	02147	B	D	02/19/2018	8.3	N	40	332.0
A60972	952	18055	B	D	09/08/2017	70.1	N	204	14300.4
A85946	260	09076	A	D	10/03/2014	41.2	N	1275	52530.0
A85946	264	44053	A	D	02/16/2015	56.2	N	1139	64011.8
A85946	264	44053	B	D	02/16/2015	69.5	N	1139	79160.5
A85946	264	44054	A	D	01/10/2017	123.7	N	445	55046.5
A85946	264	44054	B	D	01/10/2017	46.0	N	445	20470.0
A85946	264	44062	A	D	04/01/2015	76.3	N	1095	83548.5
A85946	279	09066	A	D	02/29/2016	58.9	N	761	44822.9
A85946	282	44050	B	D	02/01/2018	31.2	N	58	1809.6
A85946	283	44047	A	D	10/16/2017	59.7	N	166	9910.2
A85946	283	44064	A	D	02/02/2018	121.6	N	57	6931.2
A85946	283	45044	A	D	11/15/2017	219.6	N	136	29865.6
A85946	283	45054	A	D	11/02/2017	59.8	N	149	8910.2
A85946	448	01192	A	D	03/06/2018	24.3	N	25	607.5
A85946	448	01231	A	D	07/27/2017	16.9	N	247	4174.3
A85946	448	01232	A	D	03/20/2018	13.2	N	11	145.2
A85946	448	01233	A	D	03/20/2018	9.8	N	11	107.8
A85946	448	01238	A	D	06/19/2017	47.9	N	285	13651.5
A85946	448	01245	A	D	03/24/2018	16.7	N	7	116.9
A85946	449	01235	A	D	11/16/2017	88.8	N	135	11988.0
A85946	449	01248	A	D	03/08/2017	55.2	N	388	21417.6
A85946	452	01260	A	D	02/05/2018	33.8	N	54	1825.2
A85946	500	06092	A	D	10/01/2016	120.3	N	546	65683.8
A85946	503	04078	A	D	12/07/2017	6.8	N	114	775.2
A85946	503	04080	A	D	12/03/2016	90.8	N	483	43856.4
A85946	503	04082	A	D	01/23/2017	13.3	N	432	5745.6
A85946	503	04083	A	D	01/24/2017	39.8	N	431	17153.8
A85946	735	04222	B	D	10/07/2014	24.9	N	1271	31647.9
A85946	943	06044	A	D	10/04/2016	164.0	N	543	89052.0
A85946	943	06044	B	D	10/04/2016	167.5	N	543	90952.5
A85946	943	06044	B	D	10/04/2016	167.5	N	543	90952.5
A85946	972	04099	A	D	09/02/2015	193.9	N	941	182459.9
A85946	972	04100	A	D	09/15/2015	36.1	N	928	33500.8
A85946	972	04103	A	D	07/27/2017	161.9	N	247	39989.3
A85946	972	04103	B	D	07/27/2017	11.9	N	247	2939.3
A85946	978	01230	A	D	11/09/2017	22.7	N	142	3223.4





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A85946	992	06035	A	D	07/15/2016	455.7	N	624	284356.8
A85946	992	06035	B	D	07/15/2016	52.5	N	624	32760.0
A85946	992	06037	A	D	04/03/2017	101.3	N	362	36670.6
A85946	993	06045	A	D	12/14/2017	20.1	N	107	2150.7
A85946	995	04177	B	D	08/22/2017	15.9	N	221	3513.9
A85946	995	04185	A	D	11/24/2017	24.5	N	127	3111.5
PAG12	APR-91509	01117	A	D	08/02/2014	53.8	N	1337	71930.6
PAG12	APR-92112	03096	A	D	08/22/2016	3.8	N	586	2226.8
PAG12	APR-92112	03129	A	D	08/22/2016	5.2	N	586	3047.2
PAG12	APR-92458	43067	A	D	03/14/2018	35.2	N	17	598.4
PAG12	APR-92458	43068	A	D	03/14/2018	44.8	N	17	761.6
PAG12	APR-92458	43069	A	D	03/19/2018	8.6	N	12	103.2
PAG12	APR-92458	43070	A	D	08/01/2016	56.7	N	607	34416.9
PAG12	APR-95141	25040	A	D	03/16/2017	19.6	N	380	7448.0
PAG12	APR-95141	25065	A	D	03/13/2017	20.7	N	383	7928.1
PAG12	APR-95184	02149	A	D	03/09/2018	21.7	N	22	477.4
PAG12	APR-95184	02157	A	D	02/28/2018	9.4	N	31	291.4
PAG12	APR-95317	01119	A	D	02/27/2018	46.4	N	32	1484.8
PAG12	APR-96053	01270	A	D	03/19/2018	3.1	N	12	37.2
PAG20	APR-92822	S18017	A	D	12/12/2015	5.5	N	840	4620.0
PAG20	APR-92822	S18018	A	D	02/01/2016	14.7	N	789	11598.3
PAG20	APR-94108	S24051	A	D	11/07/2016	11.7	N	509	5955.3
						<b>SU NAR Total</b>	<b>6,588.8</b>		3994283.4
						<b>Weighted Regen Days</b>	<b>606.2232</b>	<b>days</b>	
						<b>Weighted Regen Days</b>	<b>1.660885</b>	<b>years</b>	



**Table 58: Licensee Participants mixedwood establishment delay calculation for reporting period of April 1, 2017 to March 31, 2018**

<u>License</u>	<u>Permit</u>	<u>Cut Block</u>	<u>SU ID</u>	<u>Current Declaration</u>	<u>Harvest Start Date</u>	<u>SU NAR</u>	<u>Regen Met</u>	<u>Regen Days</u>	<u>Regen Days X SU NAR</u>
A18154	266	44063	A	CD	10/29/2015	164.5	N	884	145418.0
A18154	276	45037	A	CD	04/30/2017	42.2	N	335	14137.0
A18154	276	45038	A	CD	12/19/2016	35.9	N	467	16765.3
A18154	407	02168	A	CD	03/22/2017	29.9	N	374	11182.6
A18154	413	02170	A	CD	02/10/2017	29.5	N	414	12213.0
A18154	426	03092	A	CD	07/11/2017	34.6	N	263	9099.8
A18154	426	03095	B	CD	09/26/2017	21.7	N	186	4036.2
A18154	445	27063	A	CD	01/19/2017	73.4	N	436	32002.4
A18154	504	04151	A	CD	03/21/2017	35.0	N	375	13125.0
A18154	507	06077	A	CD	03/07/2018	13.2	N	24	316.8
A18154	667	24226	A	CD	11/25/2016	17.0	N	491	8347.0
A18154	966	02254	A	CD	11/07/2016	27.1	N	509	13793.9
A18154	967	02165	A	CD	03/26/2017	114.3	N	370	42291.0
A18154	994	23025	A	CD	03/21/2017	25.7	N	375	9637.5
A56771	277	45065	A	CD	04/03/2017	15.6	N	362	5647.2
A56771	453	01257	A	CD	01/14/2018	36.0	N	76	2736.0
A56771	455	01268	A	CD	02/26/2018	86.3	N	33	2847.9
A60049	270	45047	A	DC	08/10/2016	285.9	N	598	170968.2
A60049	423	02192	A	CD	09/15/2017	95.2	N	197	18754.4
A60049	676	24325	A	DC	10/18/2017	168.1	N	164	27568.4
A60049	808	23090	A	DC	02/26/2018	5.3	N	33	174.9
A60049	980	01210	A	DC	08/09/2015	81.5	N	965	78647.5
A60049	982	02229	A	DC	03/28/2018	42.6	N	3	127.8
A60049	996	23094	A	DC	02/20/2018	14.5	N	39	565.5
A60049	996	23108	A	DC	04/03/2017	122.6	N	362	44381.2
A60049	998	02148	A	DC	03/24/2017	27.9	N	372	10378.8
A85946	279	09069	A	CD	01/20/2018	116.8	N	70	8176.0
A85946	282	44050	A	DC	02/01/2018	30.3	N	58	1757.4
A85946	995	04177	A	DC	08/22/2017	17.8	N	221	3933.8
A85946	995	04188	A	DC	11/15/2017	19.9	N	136	2706.4
PAG12	APR-91509	01118	A	DC	03/08/2015	71.3	N	1119	79784.7
						<b>SU NAR Total</b>	<b>1,901.6</b>		791521.6
						<b>Weighted Regen Days</b>	<b>416.2398</b>	<b>days</b>	
						<b>Weighted Regen Days</b>	<b>1.140383</b>	<b>years</b>	



**Appendix 6: Compliance**





**Table 59: Licensee Participant Contraventions Reported to Agencies - April 1, 2017 - March 31, 2018**

Incident ID	Occurrence Date	Tenure	Location	Date Reported	Agency	Status	Issue Description
ITS-FSJO-2017-2071	September 14, 2017	A18154	Jedney Operating Area	October 10, 2017	MFLNRO RD	Closed	<p><b>Harvest Outside of Authorized Area</b></p> <p>A bulldozer operator working for a Canfor contractor was clearing off an old logging trail of regen and shrubs as part of a road upgrade / construction project. The operator cleared off ~200m of the trail past where the road was planned to go off through the regen to the southeast. They realised this at the end of their shift and reported it to their supervisor, who reported it to Canfor the next day (Sept. 15th).</p> <p>The road way was ribboned with pink Canfor road ribbon and BCTS road ribbon, as the BCTS access continued past where the Canfor access took off the old trail and went through immature forest. The point at which the Canfor road leaves the old trail was well marked with a 'barber pole' wrap of ribbon on a tree. The contractor had been clearly preworked, including a map with the different sections marked. The employee had a functioning Avenza device, but did not believe it was presenting their accurate location (!). The error was reported to MFLNRO C&amp;E via telephone, who requested it be logged in through the RAPP website, which was done by the Canfor supervisor. There is no significant environmental impact, as the road way will be cleared off in the near future when access is required to the BCTS blocks to the east. The operator went on medical leave for an indeterminate time. The contractor has never had such an incident since working for Canfor. No enforcement action has been taken by the MFLNRORD to date of preparation of this report.</p>



**Table 60: BCTS Contraventions Reported to Agencies - April 1, 2017 - March 31, 2018**

Incident ID		Occurrence Date	Tenure	Location	Date Reported	Agency	Status	Issue Description
ITS-TPL-2018-0253		March 17, 2017	A94078	Mile 74	August 29, 2017	NEB	Closed	The unauthorized activity was described as an unauthorized vehicle (logging truck) crossing over the Alliance pipeline right-of-way/prescribed area. Alliance pipeline operators were flying their areas and identified that an active logging operation had encroached upon the 30m prescribed area distance from a pipeline without prior authorization. Alliance Pipeline is an inter-provincial pipeline under the legislative authority of the National Energy Board (NEB). Regulation states that the company must report such an infringement to the NEB. NEB enforcement action was taken in the form of a warning letter.
ITS-TPL-2018-0272		December 9, 2017	A94988	Holman Road	December 12, 2017	C&E	Closed	Feller buncher cutting road right-of-way access into TSL followed the wrong section of ribbons. The operator did not believe the Avenza map application on his iPad was functioning properly. As a result, the operator did not realize that he had turned down the ribbon line running south rather than the south-east direction that he should have been cutting. Approximately 60m of small coniferous trees and scrub brush was cut and/or processed. The error was self-reported to BCTS through the submission of an incident report form. BCTS then reported the incident through the RAPP website. There is no significant environmental impact, as the area will be cleared off in the near future.



								access is required to the BCTS blocks to the east. C&E Enforcement action was taken in the way of a warning ticket given.
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**Table 61: Licensee Participant Contraventions Reported by Agencies.**

Incident ID	Occurrence Date	Tenure	Location	Date Reported	Agency	Status	Issue Description
3107	2017/07/01	CP 278	Beryl Prairie	May 30, 2018	C&E	Closed	Agreement holder must submit stumpage rate info in accordance with the appraisal manual. Contravention of 105 (5.2) Investigation revealed no non-compliance but a compliance notices was issued as a result of the incident.
2227	2017/07/01	CP278	Beryl Prarie	May 30, 2018	C&E	Closed	Fail to ensure information submitted to government for appraisal or any other purpose is accurate. Contravention of section 105.1. Investigation revealed no non-compliance but a compliance notices was issued as a result of the incident.



## **Appendix 7: Contact Information**





For More Information regarding this report please contact:

**BCTS**

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V1G 4A4

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Email: [Stephanie.Smith@gov.bc.ca](mailto:Stephanie.Smith@gov.bc.ca)

**Canfor**

Jennifer McCracken, RPF

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A copy of this report can be found at the Fort St John Pilot Project website:

<http://www.fsjpilotproject.com/>