



4-Dec-20

Forest Harvest Plan

PU093144



**ALBERTA
PACIFIC**
FOREST INDUSTRIES INC

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Report

1.0 Introduction

Alberta – Pacific Forest Industries Inc. (Alberta–Pacific) has prepared a Forest Harvest Plan (FHP) for the harvest of stands within Planning Unit 093144.

The Planning Unit is located within Forest Management Unit (FMU) A15.

Copies of this Forest Harvest Plan are available on the Alberta–Pacific website, at www.alpac.ca.

2.0 General Planning Unit Information /Design Considerations

This FHP has been validated by a Registered Forestry Professional from Alberta-Pacific and is being submitted for FHP approval for a 5-year period.

This FHP includes maps and reports that clearly show and document the planned harvest area boundaries, roads and water crossings within the Planning Unit.

2.1 Operating Ground Rules

This Planning Unit is designed in accordance with the Northeast Alberta Operating Ground Rules (OGRs). Alberta–Pacific is requesting certain deviations from the OGRs, due to field verified factors. These requests, along with corresponding information are listed under the section “OGR Deviations”.

3.0 Maps

Individual block maps have been included in the submission package, outlining the information pertinent to these blocks. A Planning Unit overview map and a Spatial Harvest Sequence (SHS) Planning Unit map have been included in the submission package. These maps can be viewed in the *Appendices* of this document.

4.0 Block Information

A *Block Summary Table* has been included below outlining the expected volumes of the harvest area.

4.1 Utilization

Deciduous and coniferous stands will adhere to the 15/10 utilization standard

4.2 Field verification

Field verification was conducted to assess the timber quality, potential sensitive and historical sites, operability of the harvest area, and classification of water courses within the Planning Unit boundary. Where applicable, the findings of the layout team have been noted in the corresponding section of this report.

4.3 Understory Assessment

White Spruce understory within deciduous landbase will be protected utilizing high effort understory protection in stands identified as greater than 600 stems/ha by the Alberta Vegetation Inventory (AVI), as well as any potential areas found to have understory present that is not identified by the AVI. Any deciduous blocks found to have understory amounting to between 400 stems/ha and 600 stems/ha will be protected utilizing the avoidance method.

Blocks requiring understory protection or understory avoidance are noted within the *Block Summary Table*.

Block Summary Table

(Values rounded to whole numbers)

Table 1: Block Summary Table

This table provides a brief description of the proposed harvest blocks within the Planning Unit.

Deciduous Blocks						
Source ID	Opening Number	Harvest Season (Frozen/Non-Frozen)	Area (ha)	Deciduous Volume (m ³)	Incidental Conifer Volume (m ³)	Total Volume (m ³)
*FB09214425891	4140922589	Frozen	83	14,210	2,018	16,228
FB09214435641	4140923564	Frozen	136	22,877	3,984	26,862
FB09314401351	4140930135	Frozen	69	12,086	3,008	15,094
*FB09313406251	4130930625	Frozen	111	20,918	2,084	23,001
FB09314401511	4140930151	Frozen	5	846	28	875
Total			404	70,938	11,122	82,060

*Understory Block: White Spruce understory within deciduous landbase will be protected utilizing high effort understory protection in stands identified as greater than 600 stems/ha.

Any blocks found to have understory amounting to between 400 stems/ha and 600 stems/ha will be protected utilizing the avoidance method.

4.4 Structure Retention

For Alberta-Pacific, an average of 5% representative of all harvested area at the FMU level by stewardship reporting period will be retained. A harvest area may have zero structure but the FMU average shall be 5%. Non merchantable structure is not to be tracked as part of the 5%. Structure retention will be left in the following methods:

- Laid out patches
- Individual trees
- Small clumps left at the operators' discretion

4.5 Debris Management

The Planning Unit is situated within Alberta's Fire Control Zone number 40 as identified by Alberta Agriculture and Forestry (AAF). Debris management of the Planning Unit will be accomplished in a manner consistent with Section 7.3 of the OGRs.

4.6 Camp Location

The companies have identified a camp location for logging operations within this Planning Unit. The campsite will be reclaimed as indicated in Section 11.3.4.4 of the Northeast Alberta Timber Harvesting Planning and Operating Ground Rules (OGRs).

SOURCE ID	OPENING NUMBER	LAT	LONG
FB09313406251	4130930625	-112.091674	57.039134
FB09214435641	4140923564	-112.147873	57.032214

5.0 Watercourse Protection

During the potential watercourses were identified during preliminary planning using wet areas mapping, LiDAR data, aerial imagery, as well as the available AVI data.

Where harvest blocks are in proximity to any potential watercourses, the field layout team conducted field assessments utilizing the methodology and classification standards outlined in Section 6.0 of the OGRs. Any confirmed watercourses have been buffered in accordance with the OGRs Section 6.0.

Any deviations from the OGRs in relation to the watercourse buffers are noted in this report; please refer to the *OGR Deviations* section of the report for further information.

Watercourse Crossing Summary Table

Table 2: Watercourse Crossing Summary

A list of road crossings over field verified watercourses within the Planning Unit.

Road ID	Road Crossing Number	Watercourse Class
RB09214425891	2101	INTERMITTENT
	3281	INTERMITTENT
RB0921435641	0270	EPHEMERAL
	0230	EPHEMERAL
	3558	EPHEMERAL
RB09314401351	0140	EPHEMERAL
	0110	EPHEMERAL
	0290	INTERMITTENT
	0185	SMALL PERM
RB09313406251	0625	EPHEMERAL
	0654	EPHEMERAL

6.0 Road Information

Overview maps have been attached showing roads in accordance with Section 3.4.7. of the OGRs; all spatial data requirements have also been included with this submission.

Roads will be constructed, maintained, and reclaimed in a manner consistent with Section 11.3 of the OGRs.

When new access is necessary, reclamation processes will adhere to Section 11.3.4, Section 11.3.4.3 and Section 11.3.4.4 of the OGRs. To enable for silviculture activities, all-terrain vehicle (ATV) access may be left throughout the harvest area.

Road Attributes Table

(Values rounded to whole numbers)

Table 3: Road Attributes

Summary of the proposed in-block roads of the Planning Unit.

Road ID	Road Classification	Haul Season	Length (m)
DLO840702	4	Frozen	7,351
RB09214425891	4	Frozen	8,552
RB09214435641	4	Frozen	1,857
RB09313401351	4	Frozen	2,268
RB09313406251	4	Frozen	4,871
RB09314401511	4	Frozen	1,576
Total			26,474

7.0 Land Use Information

A search of the Geographic Land Information Management and Planning System (GLIMPS) and Digital Integrated Dispositions (DIDs) yielded active dispositions within the FHP. Any necessary agreements with the disposition holder will be in place prior to the commencement of harvest operations. None of the dispositions within the FHP will restrict harvest operations in the FHP.

Land Use Summary Table

Table 4: Land Use Summary Table
Active dispositions in the Planning Unit

Disposition Number	Disposition Holder	Disposition Type
DLO840702	NFPL	DLO
LOC830746	Suncor (Aostra)	LOC

The FHP design incorporates pipeline crossings for temporary roads. The agreements will be in place prior to the construction of these crossings.

8.0 Integration with Other Forest Users

8.1 Integration with Other Harvest Operators

This FHP is not integrated between the FMA and any CTL holder, however, Al-Pac had involved Northland Forest Products Ltd. in the pre-harvest planning and they chose not to formally integrate the plan at that time.

8.2 Registered Fur Management Areas (RFMAs)

Notification letter were sent to RFMAs within the FHP who will be affected by operations. Any requests from the RFMA holders have been considered, and, where possible, the harvest design has been planned to accommodate the request.

Trapper Areas Table

Table 5: Trapper Areas Table

RFMA ID	Notification Method
772	Mail
2894	Mail

8.3 Wildlife Management Unit(s) (WMU)

Planning Unit is located within WMU 531. The Guides and Outfitters operating within this unit have been sent notification, via registered mail, on the FHP design, as well as a timeline for the commencement of harvest operations. Any requests from Guides and Outfitters have been considered, and, where possible, the harvest design has been planned to accommodate the request. A table with the active Guides and Outfitters in the WMU is included below.

Guide and Outfitters Table

Table 6: Guide and Outfitters

OG ID Number	Contact Name	Date	Contact Method
Wizard Lake Outfitting Inc.	Gunther Tondeleir	Apr-20	Registered Mail
Birch Mountain Outfitters Corp.	Charles M. Beauchamp	Apr-20	Registered Mail
Northern Sporting Adventures	Quincy Lund	Apr-20	Registered Mail
Double Diamond Wilderness Hunts Ltd.	Jeremy Hatala	Apr-20	Registered Mail
North Star Outfitting Ltd.	Neil M. Johnson	Apr-20	Registered Mail
Buffalo Hill Outfitters Inc.	Samuel Laforce	Apr-20	Registered Mail
Misty River Outfitters Ltd.	Nicholas B. Kuelken	Apr-20	Registered Mail
Epic Outfitting Ltd.	Trevor Evans	Apr-20	Registered Mail
Bateman, Ron	Ron Bateman	Apr-20	Registered Mail
Valid Outfitter's Ltd	Bryant Bowtell	Apr-20	Registered Mail
Antlerhill Outfitters Ltd.	Jason R. Voghell	Apr-20	Registered Mail
MCO/7314485 Canada Inc.	Martin Gravel	Apr-20	Registered Mail
MOA Outfitters Ltd.	Landyn Grant	Apr-20	Registered Mail
Kirschner, Martin	Martin Kirschner	Apr-20	Registered Mail
Interlake Safaris Ltd.	Jason Lambley	Apr-20	Registered Mail
Buffalo Hill Outfitters Inc.	Samuel Laforce	Apr-20	Registered Mail
Northern Wilderness Outfitters	Scott R. Gagne	Apr-20	Registered Mail
Misty River Outfitters Ltd.	Nicholas B. Kuelken	Apr-20	Registered Mail

8.4 Indigenous Groups

During the General Development Plan (GDP) process, Alberta – Pacific conducts consultations with indigenous groups every year. There have not been any issues identified prior to FHP submission.

8.5 Other Forest Users

No other forest user groups were identified within the Planning Unit area.

8.6 Forest Aesthetics

As outlined in Section 5.5. of the OGRs, Alberta – Pacific follows the objective to mitigate the impact of timber operations on the visual quality of the forest landscape.

This FHP is not adjacent to any park or recreational areas. No other aesthetics concerns have been noted.

9.0 Species and Areas of Concern

9.1 Woodland Caribou

Planning Unit 093144 boundary does have portions located within Woodland Caribou Range, however, this plan does not include harvest areas within those ranges.

9.2 Key Wildlife and Biodiversity Zone (KWBZ)

Planning Unit Click or tap here to enter text. is not located within a Key Wildlife and Biodiversity Zone; all operations will be consistent with Section 7.7.5 of the OGRs

9.3 Other Species

All known sensitive wildlife sites have been buffered in accordance with Section 7.7.5 of the OGRs.

9.4 Sensitive Sites

A landscape level review of the Planning Unit and FHP blocks and roads has been completed by professional archaeologists. Any sites identified as being a historical resource site have been removed from the harvest design. Other areas predicted to be historical resource sites have also been considered in the design with intent to avoid disturbing them. Cultural sites have been considered in the same way.

There were no signs of rare plants, including signs of terrestrial lichen found within the Planning Unit.

If any sites are identified post submission, Alberta – Pacific will take the appropriate action to protect these sites.

9.5 Forest Health

During the field verification, a team evaluated the current state of the forest health in the FHP area, as outlined in Section 10.1 of the OGRs.

If any sites are identified post submission, Alberta – Pacific will take the appropriate action to protect these sites as per Section 10.1.2 of the OGRs.

10.0 SHS Information / Variance Summary

Variances from the Spatial Harvest Sequence (SHS) within the Planning Unit boundary are shown in Appendix 3 - *Spatial Harvest Sequence Summary Table*.

11.0 OGR Deviations

Table 7: Road Percent Deviations Table

Road deviations which contain blocks that are greater than 7 hectares, with potentially more than 5% road disturbance.

Source ID	Opening Number	Block Area (ha)	Harvest Season (Frozen/ Non-Frozen)	Road Percentage	Road Percentage Reason
FB09214425891	4140922589	83	Frozen	5.3	Narrow/Irregular Block Design
FB09314401351	4140930135	69	Frozen	5.0	Narrow/Irregular Block Design
FB09313406251	4130930625	111	Frozen	5.2	Narrow/Irregular Block Design

12.0 Validation by Registered Forest Practitioner

This plan is being prepared and submitted on behalf of Alberta-Pacific Forest Industries Inc.

ALBERTA-PACIFIC FOREST INDUSTRIES INC.



Dennis Froese, RPF

