



31-Aug-20

Forest Harvest Plan

PU070164



**ALBERTA
PACIFIC**
FOREST INDUSTRIES INC

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Appendix 1- FHP Block Maps

Appendix 2- FHP Overview Maps

Appendix 3- Spatial Harevest Sequence Summary Tables

Appendix 4- Spatial Harvest Sequence Summary Map

Report

1.0 Introduction

Alberta–Pacific Forest Industries Inc. (Alberta-Pacific) has prepared a Forest Harvest Plan (FHP) for Planning Unit 070164. Alberta-Pacific holds the active timber disposition FMA9100029. The Planning Unit is located eleven kilometres east of Breynat, Alberta in FMU Lo8.

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.

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

This plan is being submitted for appraisal, for a 5-year FHP approval under the 2020-2021 Alberta-Pacific Annual Operating Plan (AOP).

2.1 Operating Ground Rules

The 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.

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)
FC07115417141	4150711714	Frozen	2	259	59	318
FC07115407741	4150710774	Frozen	6	1,164	130	1,294
FC07115407881*	4150710788*	Frozen	185	33,087	4,809	37,896
FC07115407371	4150710739	Frozen	17	2,149	677	2,826
		Total	209	36,659	5,674	42,334

*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.

4.1 Utilization

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

4.1 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.

4.2 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*.

4.3 Structure Retention

Alberta- Pacific will leave an average of 5% merchantable volume for structure retention throughout the FMU. Structure retention will be left in the following methods:

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

4.4 Debris Management

The Planning Unit is situated within Alberta's Fire Control Zone number 42 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. No blocks in Planning Unit 070164 are within the Community FireSmart Zone.

4.5 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).

Table 2: Camp Locations

SOURCE ID	OPENING NUMBER	LAT	LONG
FC07115407881	4150710788	55.1365	-112.3058

5.0 Watercourse Protection

During the preliminary planning of Planning Unit 070164 potential watercourses were identified 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 3: Watercourse Crossing Summary

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

Road ID	Road Crossing Number	Stream Class
LOC901416	1288	Ephemeral
LOC4333	1219	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 4: Road Attributes

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

Road ID	Road Classification	Haul Season	Class	Length, m
LOC4333	Temp	Frozen	4	4,404
LOC901416	Temp	Frozen	4	2,351
RC07115407881	Temp	Frozen	4	4,744
RC07115417141	Temp	Frozen	4	307

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

Disposition Number	Disposition Holder	Disposition Type
LOC4333	CNRL	LOC
LOC901416		
PLA931580		PLA

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

Planning Unit 070164 is not an integrated plan.

8.2 Registered Fur Management Areas (RFMAs)

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

Trapper Areas Table

Table 6: Trapper Areas Table
RFMA holders affected by harvest operations

RFMA ID	Notification Method
1327	Letter

8.3 Wildlife Management Unit(s) (WMU)

The Planning Unit is located within WMU 515. 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.

Guide and Outfitters Table

Table 7: Guide and Outfitters

List of Guide and Outfitters active in WMU 515.

OG Name	Date	Contact Method
North Point Outfitters Inc.	25-Feb-20	Letter
Sherwood Outfitters Inc.	25-Feb-20	Letter
Limb Driven Outfitters Ltd.	25-Feb-20	Letter
North County Outfitting Inc.	25-Feb-20	Letter
Avenir Guiding & Outfitting.	25-Feb-20	Letter
Alberta Guide & Outfitter Ltd.	25-Feb-20	Letter

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 for the Planning Unit 070164 prior to FHP submission.

8.5 Other Forest Users

There are no forest user groups identified as operating 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, and no other aesthetics concerns have been noted to date by other forest users.

9.0 Species and Areas of Concern

9.1 Woodland Caribou

Planning Unit 070164 is not located within caribou range.

9.2 Key Wildlife and Biodiversity Zone (KWBZ)

Planning Unit 070164 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 review of the block design and landscape of the FHP was completed by professional archaeologists. Any sites identified as being of high historical significance (historical resource sites) have been removed from the harvest design.

Upon completion of cutblock and road layout, a second review of the harvest blocks, and temporary roads is completed to identify potential conflicts, and to determine if any further changes are required to the Planning Unit.

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.

9.6 Historical Resources

A review of the block design and landscape of the FHP was completed by professional archaeologists. Any sites identified as being of high historical significance (historical resource sites) have been removed from the harvest design.

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

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 8: 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
FC07115407881	4150710788	176.2	Frozen	5.1	High volume areas & Irregular shaped segments in block

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.



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