



11-Oct-22

Forest Harvest Plan

PU072234



**ALBERTA
PACIFIC**
FOREST INDUSTRIES INC



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Appendix 2- FHP Overview Maps

Appendix 3- Spatial Harvest Sequence Summary Tables

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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 072234.

The Planning Unit is located within Forest Management Unit (FMU) L02 on the west side of Calling Lake and east of the Athabasca River. Primary access to the plan is located off of the “1000 Road” heading west of highway 813 within the Municipal District of Opportunity No. 17

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 2022-2023 Alberta-Pacific Annual Operating Plan (AOP).

2.1 Operating Ground Rules

This Planning Unit is designed in accordance with the Timber Harvest Planning and Operating Ground Rules - Northeast Alberta Regional Area-Specific Addendum (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.

There are no Blocks requiring high-effort understory protection methods in the planning unit. Any deciduous blocks found to have understory amounting to between 400 stems/ha and 600 stems/ha will be protected utilizing the avoidance method.

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						
<i>Source ID</i>	Opening Number	Harvest Season (Frozen/ Non-Frozen)	Area (ha)	Deciduous Volume (m³)	Incidental Conifer Volume (m³)	Total Volume (m³)
FC07123431681	4230713168	Frozen	31.9	6027	3232	9258
FC07223403191	4230720319	Frozen	22.7	3694	1985	5679
FC07223404071	4230720407	Frozen	49.4	7198	3585	10782
FC07223405001	4230720500	Frozen	37.5	5442	3743	9186
FC07223405741	4230720574	Frozen	15.5	1227	2032	3260
FC07223406571	4230720657	Frozen	41.6	7457	2931	10388
FC07223407611	4230720761	Frozen	22.3	3898	1754	5652
FC07223407971	4230720797	Frozen	22.4	4117	1625	5742
FC07223409231	4230720923	Frozen	38.2	5203	3090	8293
FC07223409931	4230720993	Frozen	31.1	4551	2891	7443
FC07223417511	4230721751	Frozen	8.9	2360	587	2946
FC07223418911	4230721891	Frozen	10.7	2330	557	2887
Totals				53,505	28,012	81,516

4.4 Structure Retention

For Alberta-Pacific and Commercial Timber Permits, 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 44 as identified by Alberta Agriculture, Forestry and Rural Economic Development (AFRED).

Debris management of the Planning Unit will be accomplished in a manner consistent with the Debris Management Standards for Timber Harvest Operations (AF-FDP-2017-07).

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 2.12.2 of the OGRs.

SourceID	Opening Number	LATITUDE	LONGITUDE
FC07223409231	4230720923	55.225684	-113.48692

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 2.17 of the OGRs. Any confirmed watercourses have been buffered in accordance with the OGRs Section 2.17.

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.

<i>Road ID</i>	<i>Crossing ID (Road Crossing Number)</i>	<i>Watercourse Classification</i>
LOC3622	770	Ephemeral
LOC3622	890	Transitional
LOC3622	920	Ephemeral
LOC3622	960	Ephemeral
LOC3622	970	Ephemeral
LOC3622	980	Ephemeral
LOC3622	669	Ephemeral
LOC990147	897	Ephemeral
LOC990147	898	Intermittent
LOC990147	1650	Ephemeral
LOC990147	1421	Ephemeral
LOC990147	1690	Ephemeral
LOC990147	1591	Ephemeral
LOC990147	1610	Ephemeral
RC07223403191	498	Transitional
RC07223404071	909	Intermittent
RC07223404071	895	Transitional
RC07223404071	886	Ephemeral
RC07223404071	893	Transitional
RC07223404071	409	Ephemeral
RC07223405001	3215	Ephemeral
RC07223405001	3238	Ephemeral
RC07223405001	510	Ephemeral
RC07223406571	659	Ephemeral
RC07223406571	684	Ephemeral
RC07223407611	771	Ephemeral
RC07223407611	761	Ephemeral
RC07223407971	785	Ephemeral
RC07223409231	937	Ephemeral
RC07223409931	983	Ephemeral
RC07223409931	489	Ephemeral

6.0 Road Information

Overview maps have been attached showing roads in accordance with Section 4.1.3.7. 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 2.15 of the OGRs.

When new access is necessary, reclamation processes will be followed as per applicable legislation. 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
LOC3622	Temp	Frozen	3859
LOC990147	Temp	Frozen	6222
RC07123431681	Temp	Frozen	1403
RC07223403191	Temp	Frozen	2435
RC07223404071	Temp	Frozen	4112
RC07223405001	Temp	Frozen	2599
RC07223405741	Temp	Frozen	1537
RC07223406571	Temp	Frozen	2475
RC07223407611	Temp	Frozen	1418
RC07223407971	Temp	Frozen	1291
RC07223409231	Temp	Frozen	1714
RC07223409931	Temp	Frozen	930
RC07223417511	Temp	Frozen	263
RC07223418911	Temp	Frozen	783

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
LOC3622	CANADIAN NATURAL RESOURCES LIMITED	LOC
LOC990147	CANADIAN NATURAL RESOURCES LIMITED	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 an integrated between the FMA and a CTL holder.

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
1597	Letter
1908	Letter
2579	Letter

8.3 Wildlife Management Unit(s) (WMU)

Planning Unit is located within WMU 511 & 509 . 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	Date	Contact Method
Boss Outfitting & Wilderness Adventures	August 2021	Registered Mail
Blue Bronna Outfitting	August 2021	Registered Mail
Willis Outfitters	August 2021	Registered Mail
Northern Wilderness Outfitters	August 2021	Registered Mail
North River Outfitting Ltd.	August 2021	Registered Mail
Three Rivers Adventures	August 2021	Registered Mail
Whitemud Wilderness - 655673 Alberta Ltd	August 2021	Registered Mail
North Alberta Outfitters Inc.	August 2021	Registered Mail
McKinnon & Co. Outfitters Inc.	August 2021	Registered Mail
LJ Guiding o/a Elite Outfitters	August 2021	Registered Mail
Fraser Brothers Outfitting	August 2021	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

There are no forest user groups operating within the Planning Unit area.

8.6 Forest Aesthetics

As outlined in Section 4.2.2.1. of the OGRs, Alberta – Pacific follows the objective to mitigate the impact of timber operations on the visual quality of the forest landscape.

9.0 Species and Areas of Concern

9.1 Woodland Caribou

Planning Unit 072234 is not located within Woodland Caribou Range.

9.2 Key Wildlife and Biodiversity Zone (KWBZ)

Planning Unit 072234 is not within a Key Wildlife and Biodiversity Zone.

9.3 Other Species

All known sensitive wildlife sites have been buffered in accordance with Section 2.8.9 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 2.19 of the OGRs.

If any sites are identified post submission, Alberta – Pacific will take the appropriate action to address these concerns as per Section 2.19.1 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

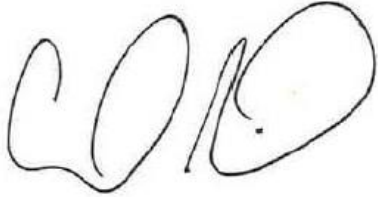
This plan completed field verification and layout in the winter of 2021/22 prior to the revision of the Provincial OGRs at the start of the 2022/23 Timber Year. As a result, the following openings will contain roads that will be constructed <200m from the highwater mark of a lake greater than 4 ha (as per Table 7 in Section 2.17 of the OGRs).

SourceID	Opening Number
FC07223418911	4230721891
FC07223417511	4230721751

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.

A handwritten signature in black ink, appearing to read 'C. Paranich', written over a light blue grid background.

Colin Paranich, RPF 1773
Woodlands Operations Planner
Alberta-Pacific Forest Industries Inc.
Cell: 780-213-4083