



14-Apr-22

Forest Harvest Plan

PU081064



**ALBERTA
PACIFIC**
FOREST INDUSTRIES INC



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Appendix 1- FHP Block Maps

Appendix 2- FHP Overview Maps

Appendix 3- Spatial Harvest 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 the harvest of stands within Planning Unit 081064.

The Planning Unit is located within Forest Management Unit (FMU) L11.

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 2021-2022 Alberta-Pacific Annual Operating Plan (AOP).

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.

SOURCEID	OPENINGNUM	HARVESTSEASON	AREA	VOLUME_D	INCIDENTAL_C	TOTALVOLUME
FA08006423571	4060802357	Non-Frozen	26	5,351	558	5,909
FA08006424221	4060802422	Non-Frozen	16	3,973	712	4,685
FA08006425031	4060802503	Non-Frozen	10	2,581	221	2,802
FA08006426271	4060802627	Non-Frozen	16	3,167	627	3,794
FA08006426541	4060802654	Non-Frozen	15	3,492	469	3,961
FA08006426661	4060802666	Non-Frozen	30	7,653	633	8,286
FA08006433791	4060803379	Non-Frozen	128	30,994	3,559	34,553
FA08006434431	4060803443	Non-Frozen	6	1,467	116	1,583
FA08006434771	4060803477	Non-Frozen	11	2,790	228	3,018
FA08006434921	4060803492	Frozen	12	2,516	216	2,732
FA08006435221	4060803522	Non-Frozen	25	6,220	499	6,719
FA08106402011	4060810201	Frozen	4	634	202	836
FA08106402221	4060810222	Non-Frozen	19	3,712	617	4,329
FA08106402521	4060810252	Non-Frozen	58	13,103	2,466	15,569
FA08106402831	4060810283	Non-Frozen	11	2,299	581	2,880
FA08106403361	4060810336	Non-Frozen	50	11,773	1,357	13,130
FA08106403681	4060810368	Non-Frozen	19	4,115	545	4,660
FA08106410711	4060811071	Non-Frozen	12	3,307	314	3,621
TOTAL			468	109,147	13,920	123,067

*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 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 42 as identified by Agriculture, Forestry and Rural Economic Development (AFRED).

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 company has identified camp locations for logging operations within this Planning Unit. The campsites 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
FA08106403681	4060810201	55.990	- 110.842
FA08106403361	4060810368	55.996	- 110.856

5.0 Watercourse Protection

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.

ROADNAME	Crossing ID	STREAMCLASS
LOC031078	3489	Ephemeral
RA08006424221	2397	Small Permanent
RA08006424221	2406	Ephemeral
RA08006426271	2626	Transitional
RA08006426541	2653	Transitional
RA08006426541	2656	Small Permanent
RA08006426661	2665	Ephemeral
RA08006426661	2666	Small Permanent
RA08006426661	2674	Transitional
RA08006426661	3540	Transitional
RA08006433791	0495	Transitional
RA08006433791	3378	Small Permanent
RA08006433791	3386	Intermittent
RA08006434921	3486	Ephemeral
RA08006434921	3492	Small Permanent
RA08006435221	3532	Small Permanent

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 inter-block roads of the Planning Unit.

Road ID	ROADCLASSIFICATION	SEASON	Length (m)
LOC031078	Temp	Non-Frozen	1,714
LOC881114	Temp	Non-Frozen	1,162
RA08006423571	Temp	Non-Frozen	634
RA08006424221	Temp	Non-Frozen	2,003
RA08006426271	Temp	Non-Frozen	467
RA08006426541	Temp	Non-Frozen	1,534
RA08006426661	Temp	Non-Frozen	2,041
RA08006433791	Temp	Non-Frozen	3,016
RA08006434771	Temp	Non-Frozen	411
RA08006434921	Temp	Frozen	1,472
RA08006435221	Temp	Non-Frozen	421
RA08106402011	Temp	Frozen	272
RA08106402221	Temp	Non-Frozen	545
RA08106402521	Temp	Non-Frozen	847
RA08106403361	Temp	Non-Frozen	1,423
RA08106403681	Temp	Non-Frozen	1,337

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
LOC881114	Meg Energy Corp.	LICENSE OF OCCUPATION
LOC031078	Suncor Energy Inc.	LICENSE OF OCCUPATION

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 letters 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	Contact Method
629	Letter	Mail

8.3 Wildlife Management Unit(s) (WMU)

Planning Unit 081064 is located within WMU 517 . 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
Clearwater River Outfitting Ltd.	Andrew Breen	Oct-15-2021	Letter
McMahon, Jon	Johnathan J. McMahon	Oct-15-2021	Letter
Misty River Outfitters Ltd.	Nicholas B. Kuelken	Oct-15-2021	Letter
Bruno Martel Hunting Adventure Inc.	Bruno Martel	Oct-15-2021	Letter
Great White Holdings Ltd.	Lloyd A. McMahon	Oct-15-2021	Letter
Winefred Lake Contractors and Outfitters Ltd	Paul J. Padlesky	Oct-15-2021	Letter
Pine Creek Outfitters Inc.	Joel Young	Oct-15-2021	Letter

8.4 Indigenous Groups

During the General Development Plan (GDP) process, Alberta – Pacific conducts consultations with indigenous groups every year. There have been concerns identified by Janvier which have been addressed within this 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 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 081064 is located within Woodland Caribou Range; all operations within the Woodlands Caribou Zone will be consistent with section 7.7.2 of the OGRs.

9.2 Key Wildlife and Biodiversity Zone (KWBZ)

Planning Unit 081064 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.

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.

SOURCEID	OPENINGNUM	AREAGIS	HARVESTSEASON	ROADPERCENTAGE	ROADPERCENTAGEREASON
FA08006424221	4060802422	16	Non-Frozen	6.85	TERR
FA08006425031	4060802503	10	Non-Frozen	7.2	NARR
FA08006426271	4060802627	16	Non-Frozen	5.22	NARR
FA08006426541	4060802654	15	Non-Frozen	7.06	NARR
FA08006426661	4060802666	30	Non-Frozen	6.96	NARR
FA08006433791	4060803379	128	Non-Frozen	5.55	NARR
FA08006434771	4060803477	11	Non-Frozen	5.41	ACCS
FA08006434921	4060803492	12	Frozen	11.83	NARR
FA08006435221	4060803522	25	Non-Frozen	5.3	NARR
FA08106402221	4060810222	19	Non-Frozen	5.98	NARR
FA08106403361	4060810336	50	Non-Frozen	4.56	ACCS
FA08106403681	4060810368	19	Non-Frozen	7.46	ACCS
FA08106410711	4060811071	12	Non-Frozen	6.06	NARR

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.



Bernie Belland , RPFT