



ALBERTA
PACIFIC
FOREST INDUSTRIES INC

Alberta-Pacific Forest Industries
Inc.

Forest Harvest Plan

Forest Management Unit:

Lo8

Forest Harvest Plan- PU070144

FMA 9100029

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Forest Harvest Plan

Planning Unit 070144

Contents

1.0 Introduction	5
2.0 General Planning Unit Information /Design Considerations	5
2.1 Operating Ground Rules	5
3.0 Maps	5
4.0 Block Information.....	6
4.1 Field verification.....	6
4.2 Understory Assessment	6
Table 1: Block Summary Table	7
4.3 Structure Retention	7
4.4 Debris Management	7
4.5 Camp Location	8
5.0 Watercourse Protection	8
Table 2: Watercourse Crossing Summary.....	8
6.0 Road Information	8
Table 3: Road Attributes.....	9
7.0 Land Use Information	10
Table 4: Land Use Summary Table	10
8.0 Integration with Other Forest Users	10
8.1 Integration with Other Harvest Operators	10
8.2 Registered Fur Management Areas (RFMAs).....	10
Table 5: Trapper Areas Table	11
8.3 Wildlife Management Unit(s) (WMU)	11

Table 6: Guide and Outfitters.....	11
8.4 Indigenous Groups	11
8.5 Other Forest Users.....	11
8.6 Forest Aesthetics.....	11
9.0 Species and Areas of Concern	12
9.1 Woodland Caribou	12
9.2 Key Wildlife and Biodiversity Zone (KWBZ).....	12
9.3 Other Species	12
9.4 Sensitive Sites	12
9.5 Forest Health.....	12
10.0 SHS Information / Variance Summary.....	12
11.0 OGR Deviations.....	13

List of Tables

Table 1: Block Summary Table.....	7
Table 2: Watercourse Crossing Summary	8
Table 3: Road Attributes	9
Table 4: Land Use Summary Table.....	10
Table 5: Trapper Areas Table.....	11
Table 6: Guide and Outfitters	11
Table 7: Road Percent Deviations Table.....	13

Appendices

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 070144.

Planning Unit 070144 is located North of Lac La Biche within Forest Management Unit (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 2019-2020 Alberta-Pacific Annual Operating Plan (AOP).

2.1 Operating Ground Rules

Planning Unit 070144 has been 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.

4.1 Field verification

The proposed blocks were ground verified by a field layout team during the spring of 2019. The layout team provided planning support to assess timber quality, 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*.

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.

Alberta-Pacific 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)
FC07014415461	4140701546	N	13.37	2,198	92	2,290
FC07014415621	4140701562	N	125.33	26,342	814	27,156
FC07014416971	4140701697	N	3.47	608	26	634
FC07014422741	4140702274	N	155.31	32,081	1,045	33,126
FC07014423221	4140702322	N	7.38	1,037	62	1,099
Total			304.86	62,266	2,039	64,305

*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.

4.3 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

Debris management of the Planning Unit will be accomplished in a manner consistent with Section 7.3 of the OGRs.

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).

5.0 Watercourse Protection

During the preliminary planning of Planning Unit 070144 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 2: Watercourse Crossing Summary

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

<i>Road ID</i>	<i>Watercourse Classification</i>	<i>Crossing ID</i>
RC07014415621c	Ephemeral	1566
RC07014416971a	Ephemeral	1526

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, specifically 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 Non-Frozen/Frozen	Length, m
RC07014415461a	Temp	Non-Frozen	652
RC07014415621a	Temp	Non-Frozen	1,280
RC07014415621b	Temp	Non-Frozen	3,150
RC07014415621c	Temp	Non-Frozen	719
RC07014415621y	Temp	Non-Frozen	253
RC07014415621z	Temp	Non-Frozen	603
RC07014416971a	Temp	Non-Frozen	195
RC07014416971z	Temp	Non-Frozen	128
RC07014422741a	Temp	Non-Frozen	4,295
RC07014422741b	Temp	Non-Frozen	121
RC07014422741c	Temp	Non-Frozen	128
RC07014422741u	Temp	Non-Frozen	303
RC07014422741v	Temp	Non-Frozen	158
RC07014422741w	Temp	Non-Frozen	1,057
RC07014422741x	Temp	Non-Frozen	270
RC07014422741y	Temp	Non-Frozen	582
RC07014422741z	Temp	Non-Frozen	290
RC07014423221a	Temp	Non-Frozen	641
Total			14,826

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
DML120290

If 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 is not an integrated plan between the FMA holder and CTL holders. Copies of the plan will be sent to the Quota holders for review and sign-off.

8.2 Registered Fur Management Areas (RFMAs)

There are 2 RFMAs within the FHP who will be affected by operations. Notification letters were sent to the respective RFMA holders, 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 5: Trapper Areas Table

RFMA holders affected by harvest operations.

RFMA ID	Notification Method	Contact Method
2468	Letter	Mail
1323	Letter	Mail

8.3 Wildlife Management Unit(s) (WMU)

The holders of the following permits within WMU 515 have been notified of Al-Pac's harvest plans within Planning Unit 070144

Guide and Outfitters Table

Table 6: Guide and Outfitters

List of Guide and Outfitters active in WMU's 515.

OG ID Number
0431
0446
0447
0493
0960
1160

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 070144 FHP submission.

8.5 Other Forest Users

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

8.6 Forest Aesthetics

As outlined in Section 5.5. of the OGRs, Alberta-Pacific follow 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 070144 is not located within caribou range zone

9.2 Key Wildlife and Biodiversity Zone (KWBZ)

Planning Unit 070144 is not located within a Key Wildlife and Biodiversity Zone.

9.3 Other Species

All known sensitive wildlife sites have been buffered in accordance with Section 7.7.6.2 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 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.

<i>Source ID</i>	<i>Opening Number</i>	<i>Road Percentage</i>	<i>Reasoning</i>
RC07014422741	4140702274	5	Narrow/Irregular Block
RC07014423221	4140702322	6	Access to other blocks

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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