



18 August 2021

Forest Harvest Plan

PU085055



**ALBERTA
PACIFIC**
FOREST INDUSTRIES INC



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Maps:

FHP Block Maps

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Spatial Harvest Sequence Variance Map

Report

1.0 Introduction

Alberta – Pacific Forest Industries Inc. (Al-Pac) has prepared a Forest Harvest Plan (FHP) for the harvest of stands within Planning Unit 085055.

The Planning Unit is located within Forest Management Unit (FMU) S11.

Copies of this Forest Harvest Plan are made available on the Al-Pac website, at www.alpac.ca.

2.0 General Planning Unit Information /Design Considerations

This FHP has been validated by a Registered Forestry Professional from Al-Pac.

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 Al-Pac Annual Operating Plan (AOP).

This Planning Unit is located about 6 km south of the community of Trout Lake, and is accessed by Alberta-Pacific's "Trout Road" which is connected through a network of resource roads from Wabasca. The Trout Road runs through the north part of the planned area, and the Trout River (a large permanent) also crosses the planning area north to south.

2.1 Operating Ground Rules

This Planning Unit is designed in accordance with the Northeast Alberta Operating Ground Rules (OGRs). Al-Pac 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) Variance map have been included in the submission package.

4.0 Block Information

See **Appendix 1 - FHP Deciduous Volume** report that outlines opening numbers with expected volumes for harvest areas.

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 sections of this report.

4.3 Understorey Assessment

White Spruce understorey within deciduous landbase will be protected utilizing high effort understorey 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 understorey present that is not identified by the AVI. Any deciduous blocks found to have understorey amounting to between 400 stems/ha and 600 stems/ha will be protected utilizing the avoidance method.

In this submission, there were no blocks that warranted high effort understorey protection due to the small patch sizes. The alternative tactic was to plan additional structure retention in the higher density areas.

4.4 Structure Retention

For Al-Pac, 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 46 as identified by Alberta Agriculture and Forestry (AAF). The planned harvest areas **are within a 10km** community FireSmart Zone.

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).

PROPOSED CAMP LOCATIONS				
SOURCE ID	OPENING NUMBER	GRID	LAT	LONG
FC08604506881	5040860688	0658	56.4326	-114.6185
FC08605501861	5050860186	186	56.4297	-114.6404
FC08505535741	5050853574	3574	56.4130	-114.6684

5.0 Watercourse Protection

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 areas and roads are in proximity to potential watercourses, the 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.

See **Appendix 2 – FHP Road Xing List** for details of crossings and watercourse types. 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.

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. See **Appendix 3 – FHP Road List** for details on road classes, seasons, and lengths.

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.

7.0 Land Use Information

A search of the Geographic Land Information Management and Planning System (GLIMPS) and Digital Integrated Dispositions (DIDs) was completed to identify active dispositions within the FHP. Any necessary agreements with the disposition holder will be in place prior to the commencement of harvest operations.

Land Use Summary Table

Table 1: Land Use Summary Table
Active dispositions impacted by Harvest Plan:

LANDUSE SUMMARY		
Disposition Number	Disposition Holder	Disposition Type
None	None	None

No Dispositions were encountered in this plan's access or harvest areas.

The FHP design incorporates pipeline crossings, and use of access dispositions for temporary roads. The agreements will be in place prior to use and construction of these crossings.

8.0 Integration with Other Forest Users

8.1 Integration with Other Harvest Operators

This plan is not integrated with other Quota Holders or Permittees, and effort was taken to avoid other's landbase (conifer).

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 2: Trapper Areas Table

RFMA HOLDERS	
RFMA ID	Notification Method
2093	Registered Mail
2539	Registered Mail
998	Registered Mail

8.3 Wildlife Management Unit(s) (WMU)

Planning Unit is located within **WMU 542**. 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 3: Guide and Outfitters

GUIDE & OUTFITTERS		
Company	Date	Contact Method
Blue Bronna Outfitting	Feb. 25, 2020	Letter
Northern Adventure Hunts	Feb. 25, 2020	Letter
Wide North Outfitters Ltd.	Feb. 25, 2020	Letter
North Alberta Outfitters	Feb. 25, 2020	Letter
Northern Wilderness Outfitters	Feb. 25, 2020	Letter
Three Rivers Adventures	Feb. 25, 2020	Letter
Northern Edge Outfitting Ltd.	Feb. 25, 2020	Letter
Grizzly Mountain Outfitters	Feb. 25, 2020	Letter

8.4 Indigenous Groups

During the General Development Plan (GDP) process, Al-Pac conducts consultations with indigenous groups every year. Al-Pac works with First Nations to address concerns on an ongoing basis, and considerations are incorporated into the planning process.

8.5 Other Forest Users

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

8.6 Forest Aesthetics

As outlined in Section 5.5. of the OGRs, Al-Pac 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. No specific strategies were employed for aesthetics.

9.0 Species and Areas of Concern

9.1 Woodland Caribou

Planning Unit 085055 is **not** located within a Woodland Caribou Range.

9.2 Key Wildlife and Biodiversity Zone (KWBZ)

Planning Unit 085055 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 7.7.5 of the OGRs.

9.4 Cultural 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.

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. No forest health concerns were identified.

If any sites are identified post submission, Al-Pac 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 4 - SHS Variance Table**.

11.0 OGR Deviations

Road deviations which contain blocks that are greater than 7 hectares, with potentially more than 5% road disturbance are listed in **Appendix 5: FHP OGR Var List**. Within the report the *Road Percentage Reasons* include 'ACCS' and 'NARR', which mean access to other blocks and narrow/irregular block respectively.

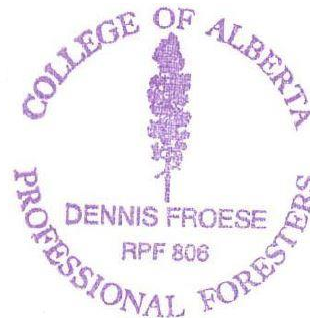
Additional Variances to note:

There were no additional variances to note.

12.0 Validation by Registered Forest Practitioner

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

ALBERTA-PACIFIC FOREST INDUSTRIES INC.





FHP Decid Volumes

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<i>Source ID</i>	<i>Opening Number</i>	<i>Harvest Season</i>	<i>DBP Required</i>	<i>Area</i>	<i>Decid. Volume</i>	<i>Incidental Conifer</i>	<i>Total Volume</i>
FC08504531561	5040853156	Frozen	NONE	53	13,860	1,189	15,049
FC08505525431	5050852543	Non-Frozen	NONE	47	11,604	794	12,398
FC08505526951	5050852695	Non-Frozen	NONE	31	7,893	540	8,433
FC08505527531	5050852753	Non-Frozen	NONE	84	17,750	2,430	20,180
FC08505527991	5050852799	Non-Frozen	NONE	43	8,696	881	9,577
FC08505535561	5050853556	Non-Frozen	NONE	94	23,390	1,686	25,076
FC08505535701	5050853570	Non-Frozen	NONE	67	15,743	1,130	16,873
FC08505535741	5050853574	Non-Frozen	NONE	66	16,187	1,349	17,536
FC08505536301	5050853630	Frozen	NONE	72	16,719	1,495	18,214
FC08505536581	5050853658	Non-Frozen	NONE	68	16,300	1,432	17,732
FC08604505011	5040860501	Frozen	NONE	12	2,828	194	3,022
FC08604505381	5040860538	Frozen	NONE	7	1,509	300	1,809
FC08604506251	5040860625	Non-Frozen	NONE	24	6,457	498	6,955
FC08604506391	5040860639	Frozen	NONE	5	1,294	100	1,394
FC08604506481	5040860648	Non-Frozen	NONE	3	546	108	654
FC08604506861	5040860686	Non-Frozen	NONE	6	1,329	262	1,591
FC08604506881	5040860688	Non-Frozen	NONE	121	32,323	3,137	35,460
FC08604507001	5040860700	Frozen	NONE	10	2,862	221	3,083
FC08605501181	5050860118	Non-Frozen	NONE	52	13,678	991	14,669
FC08605501861	5050860186	Frozen	NONE	6	1,643	127	1,770
FC08605501931	5050860193	Non-Frozen	NONE	7	1,813	136	1,949
FC08605502821	5050860282	Frozen	NONE	117	30,388	3,303	33,691
FC08605512131	5050861213	Non-Frozen	NONE	5	1,297	100	1,397
FC08605512601	5050861260	Frozen	NONE	27	7,248	559	7,807
Grand Totals				1,027	253,357	22,962	276,319



FHP Road Xing List

8/13/2021 10:46:51 AM

<i>Road Name</i>	<i>Road Classification</i>	<i>Season</i>	<i>Stream Class</i>	<i>Crossing Number</i>
RC08504531561			Ephemeral	3122
RC08505525431			Ephemeral	2534
			Ephemeral	2548
			Ephemeral	3670
			Intermittent	3671
RC08505526951			Ephemeral	2524
			Small Permanent	2676
RC08505527531			Ephemeral	2737
			Ephemeral	2768
RC08505527991			No Watercourse	3492
			Ephemeral	3533



FHP Road Xing List

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<i>Road Name</i>	<i>Road Classification</i>	<i>Season</i>	<i>Stream Class</i>	<i>Crossing Number</i>
RC08505535561			Ephemeral	0107
			Ephemeral	0251
			Ephemeral	0252
			Ephemeral	0263
			Ephemeral	0264
			Ephemeral	0274
			Ephemeral	3543
			Ephemeral	3553
			Ephemeral	3565
			Ephemeral	3568
			Ephemeral	3569
			Ephemeral	3577
RC08505535701			Ephemeral	2696
			Ephemeral	3551
			Ephemeral	3572
			Ephemeral	3590
			Ephemeral	3600
RC08505535741			Ephemeral	0270
			Ephemeral	3584



FHP Road Xing List

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<i>Road Name</i>	<i>Road Classification</i>	<i>Season</i>	<i>Stream Class</i>	<i>Crossing Number</i>
RC08505536301			Ephemeral	2538
			Ephemeral	3644
			Ephemeral	3645
RC08505536581			Ephemeral	0143
			Ephemeral	0160
			Ephemeral	3649
			Ephemeral	3659
RC08604505011			Ephemeral	0510
			Ephemeral	0521
			Ephemeral	0542
RC08605501181			Ephemeral	0126
			Ephemeral	0136
			Ephemeral	0145
RC08605502821			Ephemeral	3607
			Ephemeral	3639



FHP Road List

8/13/2021 10:44:59 AM

<i>Road Name</i>	<i>Road Classification</i>	<i>Season</i>	<i>Road Length</i>	<i>Crossing Number</i>
RC08504531561a	Temp	Frozen	2111	3122
RC08504531561e	Temp	Frozen	58	
RC08505525431a	Temp	Non-Frozen	2587	2534 2548 3670 3671
RC08505526951a	Temp	Non-Frozen	1723	2524 2676
RC08505527531a	Temp	Non-Frozen	945	2737 2768
RC08505527531c	Temp	Non-Frozen	1542	
RC08505527531g	Temp	Non-Frozen	1820	
RC08505527531h	Temp	Non-Frozen	363	



FHP Road List

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<i>Road Name</i>	<i>Road Classification</i>	<i>Season</i>	<i>Road Length</i>	<i>Crossing Number</i>
RC08505527991a	Temp	Non-Frozen	1724	3533
RC08505527991b	Temp	Non-Frozen	1495	
RC08505527991c	Temp	Non-Frozen	382	3492
RC08505527991d	Temp	Non-Frozen	548	
RC08505535561a	Temp	Non-Frozen	3482	0107 0251 0252 0263 0264 0274 3553 3565 3568 3569 3577
RC08505535561c	Temp	Non-Frozen	500	3543



FHP Road List

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<i>Road Name</i>	<i>Road Classification</i>	<i>Season</i>	<i>Road Length</i>	<i>Crossing Number</i>
RC08505535561h	Temp	Non-Frozen	402	
RC08505535701a	Temp	Non-Frozen	902	3551 3572
RC08505535701b	Temp	Non-Frozen	1291	2696 3590 3600
RC08505535701c	Temp	Non-Frozen	1022	
RC08505535701g	Temp	Non-Frozen	181	
RC08505535741a	Temp	Non-Frozen	359	0270
RC08505535741c	Temp	Non-Frozen	1119	
RC08505535741d	Temp	Non-Frozen	461	3584
RC08505536301a	Temp	Frozen	1649	



FHP Road List

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<i>Road Name</i>	<i>Road Classification</i>	<i>Season</i>	<i>Road Length</i>	<i>Crossing Number</i>
RC08505536301b	Temp	Frozen	281	3644 3645
RC08505536301c	Temp	Frozen	286	
RC08505536301e	Temp	Frozen	182	
RC08505536301f	Temp	Frozen	678	2538
RC08505536301h	Temp	Frozen	713	
RC08505536581a	Temp	Non-Frozen	2192	0143 0160 3659
RC08505536581d	Temp	Non-Frozen	466	3649
RC08505536581g	Temp	Non-Frozen	215	
RC08505536581h	Temp	Non-Frozen	252	



FHP Road List

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<i>Road Name</i>	<i>Road Classification</i>	<i>Season</i>	<i>Road Length</i>	<i>Crossing Number</i>
RC08604505011a	Temp	Frozen	984	0510 0521 0542
RC08604505381a	Temp	Frozen	93	
RC08604506251a	Temp	Non-Frozen	1139	
RC08604506391a	Temp	Frozen	56	
RC08604506881a	Temp	Non-Frozen	1328	
RC08604506881b	Temp	Non-Frozen	2002	
RC08604506881e	Temp	Non-Frozen	360	
RC08605501181a	Temp	Non-Frozen	1520	0126
RC08605501181b	Temp	Non-Frozen	126	



FHP Road List

8/13/2021 10:44:59 AM

<i>Road Name</i>	<i>Road Classification</i>	<i>Season</i>	<i>Road Length</i>	<i>Crossing Number</i>
RC08605501181d	Temp	Non-Frozen	550	0136 0145
RC08605501181e	Temp	Non-Frozen	413	
RC08605501931a	Temp	Non-Frozen	490	
RC08605502821a	Temp	Frozen	1127	
RC08605502821b	Temp	Frozen	1530	3607
RC08605502821d	Temp	Frozen	613	
RC08605502821i	Temp	Frozen	141	
RC08605502821j	Temp	Frozen	687	3639
RC08605512131a	Temp	Non-Frozen	24	



FHP Road List

8/13/2021 10:44:59 AM

<i>Road Name</i>	<i>Road Classification</i>	<i>Season</i>	<i>Road Length</i>	<i>Crossing Number</i>
RC08605512601a	Temp	Frozen	1296	

SHS Variance Summary

Operator: Al-Pac

SR SHS Tracking between 2015 and 2025 (timber year)
PD 1, Year 1-10

2021-08-04

Harvest Profile		Planned for Harvest (ha)											Asbuilts						Combined As-Built & Planned						Unplanned SHS in Compartment							
							Variance												Variance			SHS Assessment (Excluding Slivers)										
							Substantial			Slivers									Substantial			SHS Assessment (Excluding Slivers)										
Compartment	Company Specific Yield Strata	Provincial Yield Strata	Approved DFA 10 Year SHS	Operator Approved FMP 10 Year SHS	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	Additions	Deletions	Deferrals	Total	Additions	Deletions & Deferrals	Total	SHS 1-10Yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)	Difference in Area Total Harvested - 10yr FMP SHS	Additions	Deletions	Deferrals	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)	Remaining Available Area (SHS & Non-SHS)		
S11-B	All	All	9,039	6,974	1,483	-	42	-	1,524	42	1,026	796	1,822	158	674	832	2,994	7	667	32	3,700	0.60%	(1,781)	(3,274)	747	1,026	796	10.72%	(1,075)	1,750	1	
	Aw/AwU	D	6,974	6,974	1,482.66	-	36.92	-	1,519.58	36.9	1,025.9	796.4	1,822.3	61.7	673.7	735.5	2,994.0	7.4	666.6	31.7	3,699.8	0.53%	(1,785)	(3,274)	743	1,026	796	10.65%	(1,080)	1,754	1	
	PjMX	DC-P	7	-	-	-	2.34	-	2.34	2.3	-	-	-	1.2	-	1.2	-	-	-	-	-	0.00%	2	-	2	-	-	-	0.00%	2	(2)	-
	AwSx	DC-S	510	-	-	-	-	-	-	-	-	-	-	10.0	-	10.0	-	-	-	-	-	0.00%	-	-	-	-	-	-	0.00%	-	-	-
	SxAw	CD-SW	198	-	-	-	-	-	-	-	-	-	-	8.3	-	8.3	-	-	-	-	-	0.00%	-	-	-	-	-	-	0.00%	-	-	-
	PjMx	CD-P	15	-	-	-	-	-	-	-	-	-	-	0.8	-	0.8	-	-	-	-	-	0.00%	-	-	-	-	-	-	0.00%	-	-	-
	SxAw	CD-SB	4	-	-	-	-	-	-	-	-	-	-	1.1	-	1.1	-	-	-	-	-	0.00%	-	-	-	-	-	-	0.00%	-	-	-
	Sw	C-SW	679	-	-	-	-	-	-	-	-	-	-	13.6	-	13.6	-	-	-	-	-	0.00%	-	-	-	-	-	-	0.00%	-	-	-
	Pj	C-P	646	-	-	-	2.51	-	2.51	2.5	-	-	-	14.0	-	14.0	-	-	-	-	-	0.00%	3	-	3	-	-	-	0.00%	3	(3)	-
	SbG	C-SB	6	-	-	-	-	-	-	-	-	-	-	38.7	-	38.7	-	-	-	-	-	0.00%	-	-	-	-	-	-	0.00%	-	-	-
	SBFM	C-SBFM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-	-	-	-	0.00%	-	-	-
	X	NoStrata	-	-	-	-	-	-	-	-	-	-	-	8.7	-	8.7	-	-	-	-	-	0.00%	-	-	-	-	-	-	0.00%	-	-	-

Note: * Deletions and Deferrals to be provided in shapefile format for next FMP
 Values may be affected by rounding
 Planning Units included in this Submission: 085015, 084035, 085045, 085055,



FHP OGR Var List

8/13/2021 10:48:25 AM

<i>Source ID</i>	<i>Opening Number</i>	<i>Block Area (Ha)</i>	<i>Road Percentage</i>	<i>Road Percentage Reason</i>
FC08505525431	5050852543	47	5.53	ACCS
FC08505526951	5050852695	31	6.47	ACCS
FC08505527531	5050852753	84	5.5	NARR
FC08505527991	5050852799	43	7.41	ACCS
FC08505535561	5050853556	94	4.85	ACCS
FC08505535701	5050853570	67	5.23	ACCS
FC08505535741	5050853574	66	5.62	ACCS
FC08505536301	5050853630	72	4.93	ACCS
FC08505536581	5050853658	68	5.13	ACCS
FC08604505011	5040860501	12	5.62	NARR
FC08605501181	5050860118	52	5.04	ACCS
FC08605512601	5050861260	27	4.74	NARR