



Northland Forest Products Ltd.
and
Alberta Pacific Forest Industries Inc.

Forest Harvest Plan

Compartment: "McKay River– A15-A"

Planning Unit: "089124"

FMA 9100029 & CTLA150005

Forest Harvest Plan – 089124(21-26)

Date Submitted: 2021/08/12

Forest Harvest Plan

PU089124

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Report

1.0 Introduction

Alberta – Pacific Forest Industries Inc. (Alberta – Pacific) and Northland Forest Products Ltd. (Northland) have prepared a Forest Harvest Plan (FHP) for the harvest of deciduous and coniferous stands within Planning Unit 089124.

Planning Unit 089124 is comprised of 13 proposed coniferous blocks and 9 proposed deciduous blocks with a total area of 841.2 ha, within Forest Management Unit (FMU) A16.

The companies have identified two potential camp locations for logging operations within this Planning Unit. The temporary camps are in blocks NB08912432924

(Lat 6291293.4009, Long 447359.6698) and FB08912432941 (Lat 6290559.9744, Long 447307.2822), with areas of 0.5 hectares each. They can be viewed in the FHP Overview Map. 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).

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 Registered Forestry Professionals employed by Alberta-Pacific and Northland.

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 2021-22 Alberta-Pacific and Northland Annual Operating Plan (AOP).

2.1 Operating Ground Rules

Planning Unit 089124 has been designed in accordance with the Northeast Alberta Operating Ground Rules (OGRs), revised 2018. Alberta – Pacific and Northland are 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 in Appendix A outlining the expected volumes of the area.

4.1 Utilization

Alberta – Pacific and Northland adheres to the 15/10 utilization standard for coniferous and deciduous trees, this includes the incidental.

4.2 Field Verification

The proposed blocks were ground verified by a field layout team. 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 variance findings of the layout team have been noted in the corresponding section of this report.

4.3 Understory Assessment

For this Planning Unit there was very little understory observed during the block and road layout process. If white spruce understory is encountered within deciduous blocks during operations, it will be protected utilizing the avoidance method.

4.4 Structure Retention

Alberta – Pacific will leave an average of 5% merchantable volume as structure retention throughout the FMU and Northland will leave an average of 3%. This retention will be left in the following methods:

- Laid out patches
- Mapped patches (planned with GIS desktop)
- Individual trees
- Small clumps left at the operators' discretion

4.5 Debris Management

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

5.0 Watercourse Protection

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, Table 2.

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. The list of watercourse crossings can be found in Appendix B – *Watercourse Crossing Summary Table*.

6.0 Road Information

Overview maps have been attached showing roads in accordance with Section 3.4.6. 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 of the OGRs. To enable for silviculture activities, all-terrain vehicle (ATV) access may be left throughout the harvest area. The list of roads can be found in Appendix C – *Road Attributes Table*.

7.0 Land Use Information

A search of the Geographic Land Information Management Planning System (GLIMPS) and Digital Integrated Dispositions (DIDs) yielded active dispositions within the FHP harvest area. 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 harvest area will restrict harvest operations in the FHP.

The FHP design incorporates pipeline crossings for temporary class 4 roads. The agreements will be in place prior to the construction of these crossing. Below is a land use table with the various disposition holders in the area.

Land Use Summary Table

Disposition Number	Disposition Holder	Disposition Type
EZE150315	ALBERTA POWERLINE GENERAL PARTNER LTD.	EZE
LOC080416	CONOCOPHILLIPS CANADA RESOURCES CORP.	LOC
LOC091433	PETROCHINA CANADA LTD.	LOC
LOC790841	SUNCOR ENERGY INC.	LOC
LOC810190	SUNCOR ENERGY INC.	LOC
LOC991611	CONOCOPHILLIPS CANADA RESOURCES CORP.	LOC

8.0 Integration with Other Forest Users

8.1 Integration with Other Harvest Operators

This is an integrated plan between the FMA holder and CTL holder; both companies have validated the plan.

8.2 Registered Fur Management Areas (RFMAs)

There is one RFMA within the FHP who will be affected by operations. Notification letters were sent to the respective RFMA holders, any requests from the RFMA holder have been considered, and, where possible, the harvest design has been planned to accommodate the request.

Registered Fur Management Areas Table

RFMA ID	Notification Method	Contact Method
2753	Letter	Mail

8.3 Wildlife Management Unit(s) (WMU)

Planning Unit 089124 is location within WMU 518. 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.

8.4 Indigenous Groups

During the General Development Plan (GDP) process, Alberta – Pacific and Northland complete consultation with indigenous groups every year. There have not been any issues identified for the Planning Unit 089124.

8.5 Other Forest Users

Contact has been made with Sno-Drifters and accommodations have been made. No other active recreation groups, or stakeholders have been identified.

8.6 Forest Aesthetics

As outlined in Section 5.5. of the OGRs, Alberta – Pacific and Northland 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. Alberta – Pacific and Northland will strategically locate retention areas adjacent to Class I, II, and III roads, minimizing line of sight where possible.

9.0 Species and Areas of Concern

9.1 Woodland Caribou

All the blocks and roads in this plan are within West Side Athabasca Heard for mapped caribou zones. Blocks located within the caribou range will be targeted for harvest operations early in the winter to avoid mid to late winter operations as much as possible. No evidence of woodland caribou was noted during layout operations or field reconnaissance.

9.2 Key Wildlife and Biodiversity Zone (KWBZ)

None of the planned blocks are within the KWBZ.

9.3 Other Species

All known sensitive wildlife sites have been buffered in accordance with Section 7.7.5.2 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 or moderate historical significance (historical resource sites), have been removed from the harvest design.

Upon completion of blocks and road layout, a second review of the harvest blocks, and temporary class 4 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, or diseases identified, including signs of terrestrial lichen.

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

9.5 Forest Health

During the layout stage and field verification stage, a team evaluated the current state of the forest health in the FHP area and found nothing of significance, as outlined in Section 10.1 of the OGRs.

If any sites are identified post submission, Alberta – Pacific and Northland 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 D – *SHS Variance Summary Table*.

11.0 Silviculture Information

No watercourse crossings will be left in for silviculture.

12.0 OGR Deviations

12.1 Road Deviations

The first of the following tables outlines the blocks which are greater than 7 hectares, with potentially more than 5% road disturbance.

Road Percent Deviations Table

Source ID	Opening Number	Block Area (ha)	Harvest Season (Frozen/ Non-Frozen)	Road Percentage	Road Percentage Reason
NB08912433664	4120893366	4.2	Frozen	4.6	Access to other blocks
NB08912430464	4120893046	98.4	Frozen	4.7	Access to other blocks
FB08912432791	4120893279	59.8	Frozen	4.7	Narrow / Irregular Block
FB08912421251	4120892125	43.7	Frozen	5.5	Access to other blocks
FB08912420431	4120892043	65.3	Frozen	5.1	Access to other blocks
FB08912420181	4120892018	17.4	Frozen	6.7	Access to other blocks
FB08912416571	4120891657	19.1	Frozen	4.6	Access to other blocks

13.0 Validation by Registered Forest Practitioner

Plan prepared and submitted on behalf of Alberta-Pacific and Northland.



Dennis Froese, RPFT

ALBERTA-PACIFIC FOREST INDUSTRIES INC.



Douglas Needham, RPFT

NORTHLAND FOREST PRODUCTS LTD

Appendix A: Block Summary Table

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)
FB08912432941	4120893294	Frozen	84.2	12,406	2,208	14,615
FB08912432791	4120893279	Frozen	59.8	8,453	1,956	10,408
FB08912432111	4120893211	Frozen	25.3	3,343	646	3,989
FB08912431651	4120893165	Frozen	13.1	2,100	45	2,146
FB08912430191	4120893019	Frozen	42.9	7,893	1,832	9,724
FB08912421251	4120892125	Frozen	43.7	9,069	219	9,288
FB08912420431	4120892043	Frozen	65.3	13,297	1,604	14,902
FB08912420181	4120892018	Frozen	17.4	2,948	358	3,306
FB08912416571	4120891657	Frozen	19.1	3,708	1,387	5,096
ALPac Blocks		Total	370.9	63,218	10,256	73,474

Appendix A: Block Summary Table

Coniferous Blocks - NFPL							
Source ID	Opening Number	Harvest Season (Frozen/ Non-Frozen)	Area (ha)	Conifer Volume (m ³)	Aris Code	Incidental Deciduous Volume (m ³)	Total Volume (m ³)
NB08913425884	4130892588	Frozen	21.6	2,388	MxPj_dc	2,013	4,401
NB08913424974	4130892497	Frozen	27.8	3,771	MxPj_cd	453	4,224
NB08912433664	4120893366	Frozen	4.2	137	MxPj_dc	381	518
NB08912432924	4120893292	Frozen	30.0	3,481	AwS	2,445	5,927
NB08912432144	4120893214	Frozen	41.0	3,156	MxPj_dc	3,207	6,362
NB08912431144	4120893114	Frozen	23.2	2,630	MxPj_dc	790	3,420
NB08912430804	4120893080	Frozen	18.5	2,138	Pj	660	2,798
NB08912430464	4120893046	Frozen	98.4	9,970	Pj	6,593	16,563
NB08912430024	4120893002	Frozen	22.9	1,522	Pj	1,691	3,213
NB08912429314	4120892931	Frozen	35.7	4,446	Pj	2,065	6,511
NB08912420644	4120892064	Frozen	102.5	14,844	Pj	4,563	19,407
NB08912420034	4120892003	Frozen	15.4	1,666	Pj	443	2,109
NB08912416794	4120891679	Frozen	29.1	8,259	Sw	5,122	13,381
NFPL Blocks		Total	470.3	58,407		30,425	88,832

Appendix B: Watercourse Crossing Summary Table

Road ID	Road Crossing Number	Stream Class
RB08912420034	2013	EPHEMERAL
	2014	EPHEMERAL
RB08912420181	2018	EPHEMERAL
	2009	EPHEMERAL
	3090	EPHEMERAL
RB08912420644	1738	EPHEMERAL
	1737	EPHEMERAL
	1767	EPHEMERAL
	2085	EPHEMERAL
	2062	EPHEMERAL
	1749	EPHEMERAL
	2040	EPHEMERAL
RB08912421251	2105	EPHEMERAL
RB08912430024	3004	EPHEMERAL
	2591	EPHEMERAL
RB08912430191	3690	EPHEMERAL
RB08912430464	3055	EPHEMERAL
	3077	EPHEMERAL
	3093	EPHEMERAL
RB08912430804	3072	EPHEMERAL
RB08912431144	3123	EPHEMERAL
RB08912432791	3319	EPHEMERAL
	0560	EPHEMERAL
RB08912432941	3237	EPHEMERAL
RB08913424974	2486	EPHEMERAL
EZE150315	3203	EPHEMERAL
	3237	SMALL PERMANENT
LOC080416	2986	EPHEMERAL
LOC091433	3078	EPHEMERAL
	3067	EPHEMERAL

Appendix C: Road Attributes Table

Road ID	Road Classification	Haul Season	FCODE	Class	Length, m
EZE150315	Temp	Frozen	Winter Road	4	12,127
LOC080416	Temp	Frozen	Winter Road	4	1,353
LOC091433	Temp	Frozen	Winter Road	4	3,052
LOC790841	Temp	Frozen	Winter Road	4	1,638
LOC810190	Temp	Frozen	Winter Road	4	487
LOC991611	Temp	Frozen	Winter Road	4	2,147
RB08912416571	Temp	Frozen	Winter Road	4	453
RB08912416794	Temp	Frozen	Winter Road	4	1,400
RB08912420034	Temp	Frozen	Winter Road	4	744
RB08912420181	Temp	Frozen	Winter Road	4	1,436
RB08912420431	Temp	Frozen	Winter Road	4	929
RB08912420644	Temp	Frozen	Winter Road	4	4,966
RB08912421251	Temp	Frozen	Winter Road	4	2,843
RB08912430024	Temp	Frozen	Winter Road	4	902
RB08912430191	Temp	Frozen	Winter Road	4	1,655
RB08912430464	Temp	Frozen	Winter Road	4	4,678
RB08912430804	Temp	Frozen	Winter Road	4	1,200
RB08912431144	Temp	Frozen	Winter Road	4	630
RB08912432791	Temp	Frozen	Winter Road	4	1,953
RB08912432924	Temp	Frozen	Winter Road	4	222
RB08912432941	Temp	Frozen	Winter Road	4	2,139
RB08912433664	Temp	Frozen	Winter Road	4	58
RB08913424974	Temp	Frozen	Winter Road	4	1,355
				Total	48,365

SHS Variance Summary

Operator: Al-Pac

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

2021-07-20

Harvest Profile		Planned for Harvest (ha)											Asbuilts						Combined As-Built & Planned						Unplanned SHS in Compartment							
		Variance									Harvested (ha)			SHS Assessment (Excluding Slivers)			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)		
A15-A	All	All	5,739	4,179	519	-	111	86	716	197	238	82	320	206	253	459	1,652	-	137	38	1,827	4.71%	(123)	(2,352)	371	238	82	8.89%	52	1,636	1,434	
	Aw/AwU	D	3,375	3,375	495.96	-	84.11	45.97	626.04	130.1	128.1	50.2	178.3	70.8	158.2	229.0	1,108.4	-	103.1	30.8	1,242.4	3.85%	(48)	(2,133)	264	128	50	7.82%	86	1,507	1,434	
	PjMX	DC-P	215	-	-	-	-	-	-	-	-	-	-	0.0	-	0.0	-	-	-	-	-	0.00%	-	-	-	-	-	-	0.00%	-	-	-
	AwSx	DC-S	222	137	-	-	-	3.71	3.71	3.7	7.8	-	7.8	21.5	11.9	33.4	116.8	-	21.4	-	138.2	2.72%	(4)	2	25	8	-	18.36%	17	(5)	(0)	
	SxAw	CD-SW	250	174	8.29	-	7.97	-	16.26	8.0	10.2	-	10.2	4.5	16.1	20.7	139.4	-	5.6	-	145.0	4.58%	(2)	(29)	14	10	-	7.78%	3	13	(0)	
	PjMx	CD-P	95	-	-	-	5.96	5.35	11.31	11.3	-	-	-	5.2	-	5.2	-	-	-	-	-	0.00%	11	-	11	-	-	0.00%	11	(11)	-	
	SxAw	CD-SB	4	4	-	-	-	-	-	-	-	-	-	0.8	2.6	3.4	1.4	-	-	-	1.4	0.00%	-	(3)	-	-	-	0.00%	-	3	(0)	
	Sw	C-SW	854	489	15.05	-	3.17	-	18.22	3.2	91.6	31.7	123.3	40.6	64.3	104.9	286.3	-	6.9	-	293.2	0.65%	(120)	(196)	10	92	32	2.05%	(113)	178	(0)	
	Pj	C-P	724	-	-	-	9.75	-	9.75	9.8	-	-	-	10.5	-	10.5	-	-	-	-	-	0.00%	10	-	10	-	-	0.00%	10	(10)	-	
	SbG	C-SB	-	-	-	-	-	-	-	-	-	-	-	42.4	-	42.4	-	-	-	6.8	6.8	100.00%	-	7	-	7	-	-	100.00%	7	(7)	-
	SBFM	C-SBFM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-	
	X	NoStrata	-	-	-	-	-	30.85	30.85	30.8	-	-	-	10.0	-	10.0	-	-	-	-	-	0.00%	31	-	31	-	-	0.00%	31	(31)	-	

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: 91114, 91124, 89124

SHS Variance Summary

Operator: Northlan

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

11-08-21

Harvest Profile					Planned for Harvest (ha)									Asbuilts						Combined As-Built & Planned					Unplanned SHS in Compartment						
										Variance				Harvested (ha)					SHS Assessment (Excluding Slivers)			Variance		SHS Assessment (Excluding Slivers)							
										Substantial		Slivers							Substantial			SHS Assessment (Excluding 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)	
A15-A	All	All	5,739	1,332	1,159	-	53	102	1,315	156	37	-	37	35	26	61	-	-	-	-	-	11.68%	119	(1,332)	156	89	-	11.68%	67	17	110
	Aw/AwU	D	3,375	-	-	-	19.14	7.68	26.83	26.8	-	-	-	19.3	25.8	45.1	-	-	-	-	-	0.00%	27	-	13	-	-	0.00%	13	(27)	(26)
	PjMX	DC-P	215	215	85.12	-	1.68	12.28	99.07	14.0	-	-	-	-	-	-	-	-	-	-	-	6.50%	14	(215)	2	4	-	0.84%	(2)	116	130
	AwSx	DC-S	222	67	108.30	-	3.73	6.94	118.96	10.7	-	-	-	0.6	-	0.6	-	-	-	-	-	15.81%	11	(67)	6	1	-	9.24%	5	(52)	(41)
	SxAw	CD-SW	250	70	148.39	-	-	-	148.39	-	-	-	-	0.4	-	0.4	-	-	-	-	-	0.00%	-	(70)	1	3	-	0.82%	(2)	(79)	(79)
	PjMx	CD-P	95	95	56.06	-	0.95	11.42	68.42	12.4	-	-	-	-	-	-	-	-	-	-	-	12.95%	12	(95)	3	8	-	3.03%	(5)	27	39
	SxAw	CD-SB	4	-	1.41	-	-	-	1.41	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	(1)	(1)
	Sw	C-SW	854	161	475.51	-	-	-	475.51	-	12.5	-	12.5	3.2	0.0	3.2	-	-	-	-	-	0.00%	(13)	(161)	11	27	-	6.83%	(16)	(314)	(327)
	Pj	C-P	724	724	284.71	-	27.77	19.57	332.05	47.3	24.4	-	24.4	0.4	-	0.4	-	-	-	-	-	6.54%	23	(724)	13	46	-	1.80%	(33)	392	414
	SbG	C-SB	-	-	-	-	44.43	44.43	44.4	-	-	-	-	4.6	0.0	4.6	-	-	-	-	-	0.00%	44	-	30	-	-	0.00%	30	(44)	(0)
	SBFM	C-SBFM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-
	X	NoStrata	-	-	-	-	-	-	-	-	-	-	-	6.6	0.5	7.1	-	-	-	-	-	0.00%	-	-	1	-	-	0.00%	1	-	(0)

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: 91124, 89124, 88134

Appendix E - FHP Checklist

Forest Harvest Plan (FHP) Checklist

Planning Unit 089124 Disposition Number FMA9100029/CTLA150005
 Company Northland Forest Products Ltd. Submission Date 12-Aug-21
Alberta Pacific Forest Industries Inc.

APPROVAL ITEM	YES/NO	INITIAL/DATE
*Validated by RFP	Yes	DN - 20210812
*Deletions and deferrals <20% of SHS area by cover type in the FHP	Yes	DN - 20210812
*Area does not exceed 100% of SHS by cover type in the FHP	Yes	DN - 20210812
**Adheres to all Ground Rules (if "NO", see OGR Variance portion of the harvest design report)	Yes	DN - 20210812
*Compartment assessment not required	Yes	DN - 20210812
*Plan agreed to in writing by affected forest companies	Yes	DN - 20210812

*Appraisal of the FHP is required as per 3.4.1 of the OGRs if "No" has been indicated on any of these Approval Items.

** Appraisal of deviations is required if "No" has been indicated on this Approval Item.

Company
(Y,N,N/A)

Administrative Considerations

Copies required as per FMA, regional OGR or agreement with ESRD Y
 FHP consistent with approved higher order plans (DFMP, SHS, GDP) Y
 Required disposition has been issued and approved Y
 FHP complete and legible Y
 - maps Y
 - block tables Y
 - blocks requiring detailed block plans identified Y
 - reforestation program Y

Ground Rule Deviations (see OGR Variance portion of the harvest design report)

All blocks containing ground rule deviations have been identified Y
 Justification provided for all ground rule deviations Y

Utilization

SHS Variance reported in FHP Y
 Deviations from utilization standards are identified, explained and justified Y
 Utilization standard matches license document (if not, Company has approval documentation for temporary deviation) Y

Integration with Other Users

Trappers have been identified and contacted Y
 Trapper information and concerns, where applicable, have been integrated into the plan Y
 Forest recreation groups identified and contacted Y
 GTA completed and grazing disposition holders have been contacted (Directive 2011-03) N/A
 Historical resources integrated into the plan Y
 Any issues raised by other users or the public have been documented Y
 Potential land use conflicts have been documented and mitigated (PNT, CNT, road use agreements, etc.) Y

Access Management

Access management, including control measures have been described and identified (location, timing, signage, etc) (7.7.1.7 & 7.7.5.6) Y

Sensitive Sites

Aesthetic/recreation concerns addressed Y
 Water source areas identified and potential impacts mitigated Y

Road Design

Location and design have been identified Y
 List of channeled watercourse crossings including watercourse classification, map identifier, etc Y
 Crossings not exempt under the *Water Act* are identified Y
 Any proposed permanent access in Caribou zones has been identified N/A
 Access opened for layout under TFA is incorporated into road design N/A
 Existing access and DLOs integrated into the plan are identified (if "N/A", these must be identified in the AOP) Y
 Removal and reclamation of old crossings is identified (if "N/A", this must be identified in the AOP) N/A

Wildlife

Wildlife zones within the planning area are identified and addressed	<u>Y</u>
FWMIS search completed and the issues identified have been addressed	<u>Y</u>
Harvest areas with timing restrictions identified	<u>Y</u>
For Woodland Caribou zone, areas of concentrated terrestrial lichen growth have been delineated and DBPs are proposed	<u>N/A</u>
All known sensitive wildlife sites have been addressed (mineral licks, raptor nests, den sites, etc)	<u>Y</u>

Insect, Disease & Fire

Firesmart tactics are identified and described	<u>Y</u>
Known infestations of insect and disease are identified and mitigation is described	<u>Y</u>
Debris disposal methods identified	<u>Y</u>

Silviculture

Pre-harvest strata declaration is included	<u>Y</u>
Watercourse crossings maintained for silviculture purposes are identified (if "N/A", these crossings must be identified in the AOP)	<u>N/A</u>

- FHP's are approved through acceptance and will be considered approved on the date Alberta acknowledges receipt of the work.
- Alberta shall notify the organization by acknowledging receipt within 5 working days of submission.
- The notification date will be documented by Alberta as the start date for FHP approval.
- Alberta shall periodically check the work and supporting documentation to verify its accuracy.
- At any time, approval can be revoked where Alberta learns the FHP is inaccurate or deficient in content

Company Sign Off

#100081 - RPFT

Northland Forest Products Ltd.
Company

12-Aug-21
Date

Submitting RFP Validation

Alberta-Pacific Forest Products Ltd.
Company

Aug 16, 2021
Date

Submitting RFP Validation
(for integrated plans)

AAF Sign Off

Reviewing RFP Validation

Date