

Planning Unit 080024 Forest Harvest Plan

1. Introduction

This Forest Harvest Plan (FHP) for Planning Unit 080024 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 2014-2015 Alberta-Pacific Forest Industries Inc. (Alberta-Pacific) Annual Operating Plan (AOP).

2. Planning Unit Specific Comments

Planning Unit 080024 is located east of the Janvier Indian Reserve.

The planning unit is located in Forest Management Unit (FMU) L11. Alberta-Pacific has rights to D, DC and D(C) as deciduous landbase and CD and C as coniferous landbase.

The harvest design utilizes the 2006 Spatial Harvest Sequence (SHS). By-passed stands have been put into second-entry blocks. These blocks will have a number 2 at the end of the block number.

Watershed

The Winefred River, Landels River, Cowper Creek and 3 other unnamed creeks (see access map in section 4) are fish bearing and have been buffered accordingly.

The Winefred River and the Landels River have been identified as a navigable water ways.

All unsurveyed creeks have been buffered and crossed as though they were fish bearing.

Stand Structure

An average of 5% of the merchantable volume will be left in stand structure over the landscape. The structure will be left as layout patches, and as single trees and small clumps of timber at the operators' discretion.

Stand structure has been planned (delineated) in the larger blocks to create some larger (> 1 ha) residual areas. These areas are identified as Retention Areas (RAs) within the lists and on the maps. These blocks have a 9 at the end of the block number.

Debris Management

All of the blocks in this unit are outside FireSmart Community Zones as identified by ESRD. One or more of following debris management strategies apply for blocks within this planning unit:

- Methods described in the Forest and Prairie Protection Act and Regulations, and/or
- Thinly spread slash throughout the block, and/or Stump side processing.

The retention of debris piles may also be utilized in addition to the above strategies, as per the Debris Disposal Policy included in the Northeast Alberta Operating Ground Rules (OGRs).

The deciduous utilization standard will be 15/10. The coniferous utilization standard will be 15/11.

Design Comments

During the layout phase of this operation, Alberta-Pacific looked for signs of insect or disease infestations. Signs of Dwarf Mistletoe were found within the planning unit.

3. Block Information

The following table summarizes the volumes within Alberta-Pacific's FHP blocks.

Landbase Volume Summary

Company	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
Alberta-Pacific Deciduous	1,666	347,879	7,859	45,446	401,184
Alberta-Pacific Coniferous	217	19,494	21,466	3,446	44,406

The following Alberta-Pacific FHP blocks will have their coniferous volume hauled as Forest Management Agreement (FMA) chargeable:

08001419411 08002403711
08002406951

Alberta-Pacific Deciduous First Entry Block Listing

(Values Affected by Rounding)

Source Id	Harvest Season	Conif Charge	Detail Plan	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
07902429161	N	INC		4	726	0	80	806
07902429271	N	INC		4	810	0	90	900
07902429481	N	INC		2	399	0	45	444
07902430861	N	INC		27	5,978	0	707	6,685
07902433631	N	INC		2	452	0	54	506
07902434661	N	INC		12	2,364	0	187	2,551
07902434871	N	INC		2	666	0	66	732
07902435471	N	INC		16	2,898	198	243	3,339
07902435791	N	INC		45	11,680	0	416	12,096
08001407231	N	INC		6	891	0	62	953
08001418361	N	INC		68	14,177	0	4,252	18,429
08001419411	N	FMA		4	489	0	133	622
08002401431	N	INC		8	1,687	0	337	2,024
08002401461	N	INC		29	6,503	0	1,192	7,695
08002401581	N	INC		6	880	348	361	1,589
08002401831	N	INC		31	6,229	254	1,613	8,096
08002403181	F	INC		4	753	0	227	980
08002403351	F	INC		5	1,139	0	35	1,174
08002403711	N	FMA		18	3,696	55	957	4,708
08002403941	F	INC		4	884	0	223	1,107
08002404481	F	INC		3	807	0	25	832
08002404641	F	INC		3	888	0	38	926

**Alberta-Pacific Deciduous First Entry Block Listing
(Cont.)**

(Values Affected by Rounding)

Source Id	Harvest Season	Conif Charge	Detail Plan	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
08002404781	F	INC		27	6,460	0	849	7,309
08002405961	F	INC		14	3,229	0	553	3,782
08002406441	F	INC		5	884	0	172	1,056
08002406951	F	FMA		35	5,279	1,294	2,136	8,709
08002407641	F	INC		47	8,223	2,085	1,886	12,194
08002407961	F	INC		22	4,657	0	571	5,228
08002408361	F	INC		6	1,507	0	47	1,554
08002408831	F	INC		13	2,599	0	708	3,307
08002411521	F	INC		26	6,521	0	208	6,729
08002411731	F	INC		3	884	0	27	911
08002412781	N	INC		3	741	0	23	764
08002413721	N	INC		9	2,259	0	112	2,371
08002413931	N	INC		48	11,883	0	862	12,745
08002414481	N	INC		3	593	0	257	850
08002414791	N	INC		6	1,349	0	239	1,588
08002414851	F	INC		3	442	0	43	485
08002416171	N	INC		13	2,681	12	503	3,196
08002417571	N	INC		5	1,151	0	35	1,186
08002417741	F	INC		24	5,974	0	377	6,351
08002417771	N	INC		2	371	0	247	618
08002418861	F	INC		16	2,868	0	791	3,659
08002419441	N	INC		9	2,070	0	137	2,207
08002419571	N	INC		60	11,509	1,877	1,535	14,921
08002419861	N	INC		4	822	0	147	969
08002420221	N	INC		5	1,120	0	134	1,254
08002420281	N	INC		9	2,058	0	254	2,312
08002420451	N	INC		3	754	0	152	906
08002420641	N	INC		11	2,391	0	252	2,643
08002421131	N	INC		43	10,059	0	1,710	11,769
08002422911	N	INC		12	2,232	0	660	2,892
08002423281	N	INC		20	4,614	0	796	5,410
08002424631	N	INC		2	462	0	37	499
08002424841	N	INC		21	5,244	13	202	5,459
08002425251	N	INC		20	4,618	0	385	5,003
08002426411	N	INC		7	1,649	0	214	1,863
08002426721	N	INC		36	6,240	0	1,749	7,989
08002426861	N	INC		21	4,684	0	329	5,013
08002429121	N	INC		17	2,862	0	379	3,241
08002429621	N	INC		27	5,929	0	384	6,313

**Alberta-Pacific Deciduous First Entry Block Listing
(Cont.)**

(Values Affected by Rounding)

Source Id	Harvest Season	Conif Charge	Detail Plan	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
08003401781	F	INC		57	12,491	127	923	13,541
08003402771	N	INC		37	6,366	0	197	6,563
08003412291	N	INC		50	12,005	0	1,477	13,482
08003413371	N	INC		39	9,195	0	1,399	10,594
08003413431	N	INC		4	437	0	128	565
08003414171	F	INC		22	4,603	0	249	4,852
08003414231	F	INC		6	824	0	223	1,047
08003414681	N	INC		63	14,574	0	778	15,352
08003423231	N	INC		9	1,945	0	285	2,230
08003423661	F	INC		18	3,679	0	574	4,253
08003423861	F	INC		1	146	0	4	150
08003424261	N	INC		13	3,124	0	191	3,315
08003424461	N	INC		3	560	0	69	629
08003424481	N	INC		5	1,056	0	156	1,212
08003424771	N	INC		13	2,430	0	368	2,798
08003425621	N	INC		5	906	0	100	1,006
08003425671	F	INC		61	12,485	117	2,097	14,699
08003433911	F	INC		108	19,205	0	688	19,893
08003434761	F	INC		10	1,640	0	51	1,691
08003435231	F	INC		57	14,126	50	540	14,716
08003435251	F	INC		8	1,796	0	420	2,216
08003435881	F	INC		8	1,000	80	379	1,459
08003436271	F	INC		5	1,036	0	59	1,095
08003436831	F	INC		9	2,142	0	207	2,349
08003436861	F	INC		4	595	0	51	646
08103401451	F	INC		6	1,271	0	113	1,384
08103402321	F	INC		7	1,305	0	188	1,493
08103403931	F	INC		5	851	0	190	1,041
08103411451	F	INC	U	59	8,827	1,349	1,237	11,413
08103412531	F	INC		14	2,391	0	660	3,051
Total				1,666	347,879	7,859	45,446	401,184

The conifer within Blocks 08001419411, 08002403711 and 08002406951 have been assigned White Spruce cover type.

**Alberta-Pacific Coniferous First Entry Block Listing –
White Spruce**

(Values Affected by Rounding)

Source Id	Harvest Season	Conif Charge	Detail Plan	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
08001406271	F	FMA		22	3,705	1,813	211	5,729
08002406891	F	FMA		18	2,758	1,793	476	5,027
08002417431	F	FMA		38	3,860	3,965	1,352	9,177
08003424731	F	FMA		62	5,769	9,008	1,290	16,067
08003436371	F	FMA		3	320	324	0	644
Total				143	16,412	16,903	3,329	36,644

**Alberta-Pacific Coniferous First Entry Block Listing –
Pine**

(Values Affected by Rounding)

Source Id	Harvest Season	Conif Charge	Detail Plan	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
08003432381	F	FMA		45	2,539	2,439	117	5,095
08003434291	F	FMA		5	33	334	0	367
08003434681	F	FMA		4	111	230	0	341
08003435281	F	FMA		5	51	263	0	314
08103402261	F	FMA		1	9	111	0	120
08103403631	F	FMA		11	200	822	0	1,022
08103405611	F	FMA		3	139	364	0	503
Total				74	3,082	4,563	117	7,762

Alberta-Pacific Coniferous Second Entry Block Listing

(Values Affected by Rounding)

Source Id	Harvest Season	Conif Charge	Detail Plan	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
08001407352	N	FMA		24	678	1,534	10	2,222
08001407572	N	FMA		4	9	280	0	289
08002401412	F	FMA		2	24	218	0	242
08002401622	F	FMA		13	267	1,832	0	2,099
08002404242	F	FMA		4	6	199	0	205
08002405632	F	FMA		3	0	0	0	0
08002405642	F	FMA		5	133	619	0	752
08002405742	F	FMA		4	53	343	0	396
08002405822	N	FMA		20	38	1,239	0	1,277
08002405952	F	FMA		11	359	644	0	1,003

**Alberta-Pacific Coniferous Second Entry Block Listing
(Cont.)**

(Values Affected by Rounding)

Source Id	Harvest Season	Conif Charge	Detail Plan	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
08002408422	F	FMA		10	1,107	1,647	0	2,754
08002408622	F	FMA		9	28	838	0	866
08002408862	F	FMA		16	2,345	1,895	109	4,349
08002409212	F	FMA		2	226	340	0	566
08002409372	F	FMA		15	624	3,707	0	4,331
08002409632	F	FMA		3	73	645	0	718
08002409672	F	FMA		15	34	1,035	0	1,069
08002409792	F	FMA		20	151	2,019	0	2,170
08002411242	F	FMA		2	266	40	27	333
08002411252	F	FMA		2	88	346	0	434
08002415272	F	FMA		2	17	526	0	543
08002415482	F	FMA		3	3	104	0	107
08002416292	F	FMA		6	122	384	0	506
08002416362	F	FMA		2	0	13	0	13
08002416632	F	FMA		3	52	140	0	192
08002416762	F	FMA		5	431	316	34	781
08002416952	F	FMA		7	738	1,000	29	1,767
08002417262	F	FMA		3	171	658	0	829
08002419772	N	FMA		15	1,594	2,526	0	4,120
08002419842	F	FMA		4	19	566	0	585
08002420672	F	FMA		13	462	1,078	0	1,540
08002421282	F	FMA		5	77	310	0	387
08002421342	F	FMA		21	134	1,541	0	1,675
08002421382	F	FMA		15	62	1,300	0	1,362
08002421422	F	FMA		10	17	552	0	569
08002421622	F	FMA		28	1,087	3,600	14	4,701
08002422812	F	FMA		6	534	1,237	0	1,771
08002423142	F	FMA		4	82	714	0	796
08002426242	N	FMA		5	56	453	0	509
08002426362	N	FMA		16	1,183	1,203	0	2,386
08002428222	F	FMA		2	3	126	0	129
08002428622	F	FMA		4	9	276	0	285
08002429542	F	FMA		45	206	3,937	0	4,143
08002429862	F	FMA		43	1,355	3,233	6	4,594
08002430132	F	FMA		5	31	290	0	321
08002430592	F	FMA		12	35	895	0	930
08002430732	F	FMA		26	149	2,099	0	2,248
08003418832	F	FMA		8	649	1,248	13	1,910
08003432342	F	FMA		11	92	830	0	922

**Alberta-Pacific Coniferous Second Entry Block Listing
(Cont.)**

(Values Affected by Rounding)

Source Id	Harvest Season	Conif Charge	Detail Plan	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
08103411262	F	FMA		4	86	286	0	372
Total				516	15,965	50,861	242	67,068

The blocks in the table below were harvested and are shown on the map for reference only.

Unscheduled Block Listing

(Values Affected by Rounding)

Source Id	Harvest Season	Status	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
08002423431		Harv Comp	42	0	0	0	0
08002426741		Harv Comp	36	0	0	0	0
Total			78	0	0	0	0

Retention Area Listing

(Values Affected by Rounding)

Block Id	Harvest Season	Status	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
18449			5	900	0	427	1,327
20639			4	918	0	161	1,079
Total			9	1,818	0	588	2,406

4. Access and Road Information

Landuse agreements will be in place prior to use of any third party dispositions being used.

Planning Unit Temporary Road Information

Existing access has been utilized where possible to minimize the clearing of new Right of Way (RoW). Approximately 1.8 km of the road in Twp.80 Rge.03 W4M Sections 26 and 27 is outside of the Alberta-Pacific FMA, this road utilizes existing RoW.

New access and watercourse crossings will be reclaimed in order to restrict access. All terrain vehicle (ATV) access may be left to facilitate silviculture activities.

New access and watercourse crossings will be reclaimed as per Section 11.3.4 of the OGRs. Road reclamation and abandonment details are listed in the AOP when the blocks and roads are scheduled.

Main Access and Crossings

Road No.	Class	Length (Km)	Construction Season	Crossing Location	Field Call	Navigability
01431	4S	0.19	Non-Frozen			
01451	4W	0.58	Frozen			
01461	4S	1.49	Non-Frozen	0116	E	U
01581	4S	0.08	Non-Frozen			
01781	4W	3.17	Frozen	0154	SP	U
				0177	T	U
				0186	T	U
01831	4S	0.94	Non-Frozen			
02261	4W	0.65	Frozen			
02321	4W	2.75	Frozen	0283	E	U
02771	4S	0.50	Non-Frozen	0288	I	U
03181	4W	0.42	Frozen			
03351	4W	0.90	Frozen	0324	I	U
03931	4W	0.32	Frozen			
03941	4W	1.24	Frozen			
04481	4W	0.33	Frozen			
04641	4W	1.59	Frozen			
04781	4W	1.31	Frozen			
05611	4W	2.48	Frozen	3419	E	U
				3429	SP	U
05961	4W	2.85	Frozen	0561	SP	U
				0563	E	U
				3297	E	U
06271	4W	0.08	Frozen			
06441	4W	1.20	Frozen			
06891	4W	0.42	Frozen	0689	SP	U
06951	4W	0.75	Frozen	0696	E	U
07231	4S	1.33	Non-Frozen			

Main Access and Crossings (Cont.)

Road No.	Class	Length (Km)	Construction Season	Crossing Location	Field Call	Navigability
07641	4W	2.55	Frozen	0753 1293	E T	<u>U</u> <u>U</u>
07961	4W	0.99	Frozen			
08361	4W	0.06	Frozen			
08831	4W	0.61	Frozen	0912	SP	U
11451	4W	1.00	Frozen			
11521	4W	1.57	Frozen	0238	E	U
11731	4W	0.02	Frozen	1163	I	U
12291	4S	0.07	Non-Frozen	1343	E	U
12531	4W	3.61	Frozen			
13431	4S	1.39	Non-Frozen	1314 1334 1496	I E E	U U U
13931	4S	1.74	Non-Frozen	1299 1833	E I	U U
14171	4W	0.71	Frozen	1437	B	U
14231	4W	0.11	Frozen	1423	T	U
14481	4S	1.55	Non-Frozen			
14681	4S	2.11	Non-Frozen	1466 1479	E I	U U
14791	4S	0.10	Non-Frozen			
14851	4W	1.00	Frozen	1315 1325	SP SP	U U
16171	4S	0.05	Non-Frozen			
17431	4W	1.46	Frozen	0818	I	U
17571	4S	0.83	Non-Frozen	1758	E	U
17771	4S	0.32	Non-Frozen			
18361	4S	1.79	Non-Frozen	1815	SP	U
18861	4W	1.07	Frozen	1889 1963 1981 1839	E E E E	U U U U
19411	4S	0.48	Non-Frozen			
19441	4S	0.49	Non-Frozen			
19571	4S	1.51	Non-Frozen	1919 1947	SP E	U U
19861	4S	0.54	Non-Frozen	1967 1977	E E	U U
20221	4S	0.71	Non-Frozen	2044	E	U
20281	4S	0.90	Non-Frozen	1997	E	U
20451	4S	0.81	Non-Frozen			
20641	4S	0.85	Non-Frozen	2094	T	U
21131	4S	1.53	Non-Frozen			
22911	4S	0.22	Non-Frozen			
23231	4S	1.22	Non-Frozen			
23661	4W	0.35	Frozen	2386	E	U
23861	4W	0.09	Frozen			
24261	4S	0.68	Non-Frozen			
24481	4S	0.16	Non-Frozen			
24631	4S	0.07	Non-Frozen	2463	E	U
24731	4W	2.23	Frozen	1911	E	U
24771	4S	1.04	Non-Frozen	2469	E	U

Main Access and Crossings (Cont.)

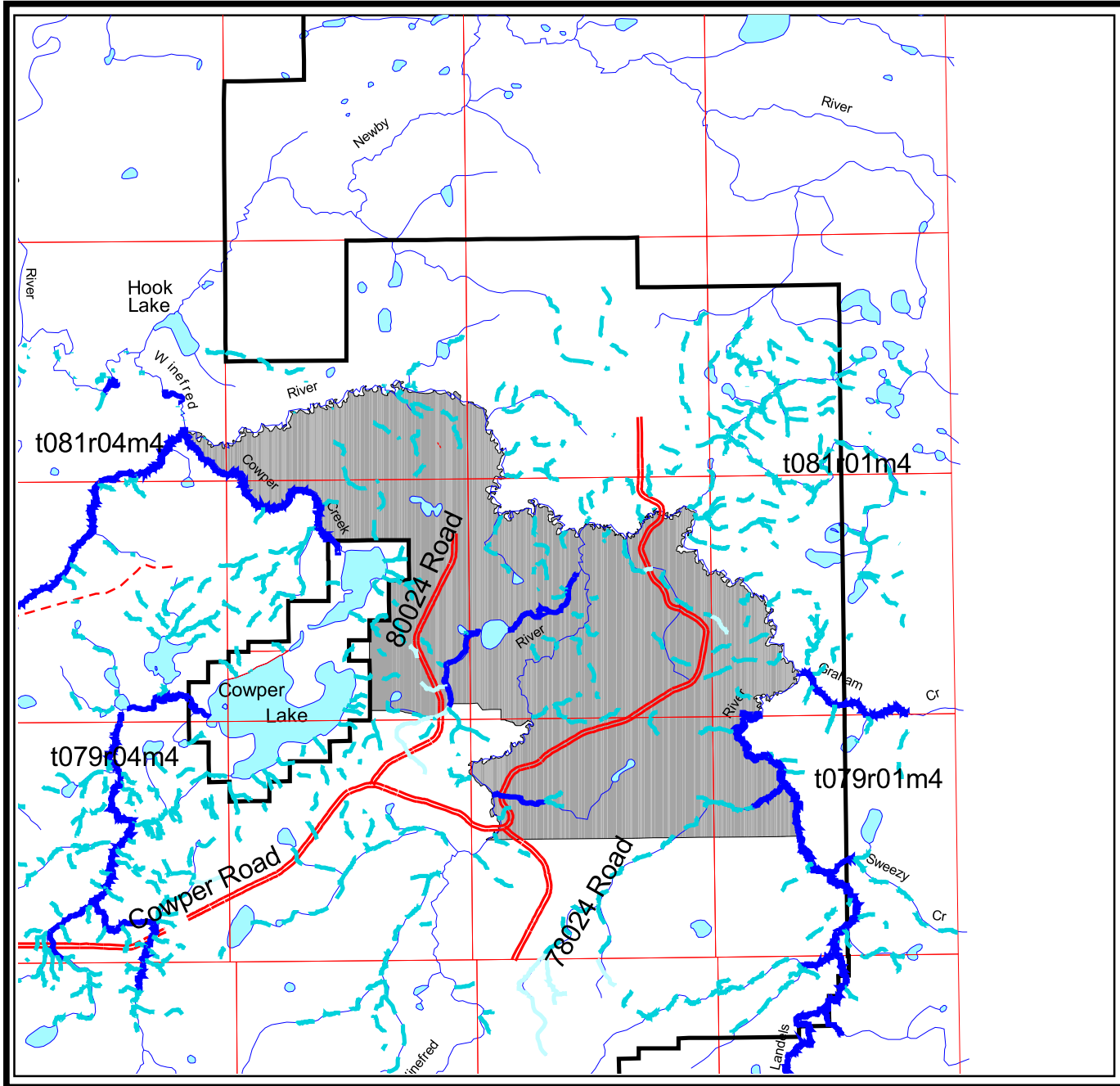
Road No.	Class	Length (Km)	Construction Season	Crossing Location	Field Call	Navigability
24841	4S	1.64	Non-Frozen	1924	SS	U
25251	4S	0.60	Non-Frozen			
25671	4W	1.73	Frozen	2589	E	U
26411	4S	0.46	Non-Frozen			
26721	4S	0.93	Non-Frozen			
26861	4S	0.24	Non-Frozen			
29121	4S	0.38	Non-Frozen	2922	E	U
29621	4S	0.94	Non-Frozen			
32381	4W	1.78	Frozen			
33911	4W	3.55	Frozen	2774	SP	U
34291	4W	0.85	Frozen	3459	SP	U
34661	4S	0.81	Non-Frozen	3445	E	U
34681	4W	0.86	Frozen			
34761	4W	0.78	Frozen	3467	T	U
				3494	E	U
35231	4W	2.36	Frozen			
35251	4W	0.27	Frozen			
35281	4W	0.88	Frozen			
35471	4S	1.23	Non-Frozen			
35791	4S	0.05	Non-Frozen	3557	E	U
35881	4W	0.80	Frozen			
36371	4W	1.38	Frozen			
36831	4W	0.35	Frozen			
36861	4W	0.82	Frozen			
Total Class 4W:		54.88				
Total Class 4S:		32.97				

Skid Trail Crossings

Road No.	Crossing Location	Base Info	Field Call	Navigability
01461	0147	UM	E	U
	0296	UM	E	U
13721	1372	UM	E	U
13931	1391	UM	E	U
24481	2446	UM	SS	U
24771	2571	UM	I	U
24841	1925	UM	E	U
35231	2799	UM	E	U

In the above tables, possible “Field Call” watercourse classifications are ephemeral (E), intermittent (I), transitional (T), small permanent (SP), large permanent (LP), lake < 4 ha (SL), lake ≥ 4 ha (LL) beaver pond (B), spring (S), saturated soils (SS) or no watercourse (NW). The “Navigability” rating identifies watercourse as being potentially navigable (N) or potentially unnavigable (U) based on the possibility of traveling the stream with a vessel. The “Field Call” watercourse classifications in the above table are based on Table 1 of the OGRs at the time, and during the conditions, when layout was conducted.

Planning Unit 080024 Access Map



1:250000

- Fish Bearing Streams
- Not Surveyed
- Sport Fish Present
- Sport Fish Not Present

5. Non Timber Values

Public Involvement

Copies of this harvest plan are available for viewing at the Athabasca, Fort McMurray and Lac La Biche libraries, TimberNorth-Athabasca, the Alberta-Pacific field offices (Wabasca and Janvier) and the Alberta-Pacific mill site.

The Public Involvement for this plan was completed during the previous year's GDP review meetings.

No concerns have been identified through the public involvement process to date.

Aboriginal Consultation

The Aboriginal Consultation for this plan was completed during the previous year's GDP review meetings.

No concerns have been identified through the Aboriginal Consultation process to date

Trappers

The holders of the following Registered Fur Management Areas (RFMA) have been contacted regarding harvesting activities within Planning Unit 080024 and their concerns have been noted below:

- 0455
- 0481
- 0694

No concerns have been identified through the Trapper Consultation process to date.

Guides and Outfitters

The holders of the following permits within Wildlife Management Unit (WMU) 517 have been notified of Alberta-Pacific's harvest plans within Planning Unit 080024 and their concerns have been noted below:

- 0260
- 0378
- 0463
- 0552
- 0934
- 1058

No concerns have been identified through the Guide and Outfitter Consultation process to date.

Forest Recreation Groups

There are currently no active forest recreation groups with interests within this planning unit.

Grazing Lease Operators

There are currently no grazing leases within this planning unit.

Historical Resources

Known historical resource sites have been addressed during the design of this plan. Lands on which historical resource sites are likely to occur will be checked prior to commencement of operations or post harvest.

Forest Aesthetics

There are no forest aesthetics concerns within this planning unit.

Land Use

As per a Land Status Automated System (LSAS) land standing report dated November 22, 2012, there are currently no dispositions within this planning unit that restrict harvesting timber.

Wildlife

This planning unit is within a Caribou Range. Operations will adhere to the Alberta-Pacific wildlife plan submitted annually in the fall.

Areas of concentrated terrestrial lichens were identified during layout. These areas were removed from the harvest design.

All known sensitive wildlife sites have been buffered according to section 7.7.6.2 of the OGRs.

The following blocks have been buffered according to section 7.1.1 of the OGR's:

08002406891

08002406951

08003424771

Block Design

Access and Access Management

Existing access has been utilized where possible to minimize the clearing of new RoW.

Continuous flow roads have been designed to reduce the amount of two-way traffic through certain areas of the planning unit.

Continuous flow roads have been utilized in larger blocks to reduce skidding distances and cycle times. Their use outside of blocks has been minimized to control access and reduce potential wildlife disturbance.

The following policies have been implemented to mitigate access management concerns:

- Temporary road systems will be “signed” as temporary and closed as soon as possible after the harvesting, hauling, and silviculture activities have been completed.
- Sight lines were considered while designing the harvest blocks and roads. Methods that might have been used are blending blocks and roads into contour levels, terrain features, vegetation cover types, and retained stand structure.

The following access control practices will also be implemented:

- Road systems will be signed as “Temporary Access - Logging in Progress.”
- If a significant delay occurs between harvesting and hauling, temporary access controls on roads will be utilized to prevent access by motorized vehicles. These controls may include the placement of logs on the road, snow berms, and/or removal of creek crossings
- Slash rollback at strategic points (such as at the ends of the block or at the junction of the temporary road and permanent road) will be completed as soon as possible after logging to discourage access by all terrain or four wheel drive vehicles.

Since the planning unit falls within a Caribou Range, the timing of operations will be completed as per the Alberta-Pacific Forest Management Plan (FMP) and OGR’s.

6. Spatial Harvest Sequence Summary

The tables below summarize the variance (in area) from the SHS, for Alberta-Pacific harvesting.

SHS Tracking

SHS Tracking	Decid. Cover Type	Sw Cover Type	Sb Cover Type	Pj Cover Type	Total Cover Type
Total SHS in Planning Unit	2,030.9	319.2	12.3	896.3	3,258.7
FHP SHS Harvest ha.	1,418.9	113.1	0.0	89.5	1,621.5
Deleted SHS ha. (reportable)	323.6	86.5	8.4	341.7	760.2
Deferred SHS ha. (reportable)	2.3	0.0	0.0	0.0	2.3
Variance % ⁽¹⁾ (reportable)	18.7	43.3	99.7	79.2	31.9
Addition ha.	100.5	5.1	0.0	0.0	105.6
Bypassed ha.	50.3	80.7	2.6	374.0	507.6
Total Harvest ha. ⁽²⁾	1,519.4	118.2	0.0	89.5	1,727.1

(1) Variance % is the Deleted and Deferred SHS ha. expressed as a percentage of the FHP SHS Harvest, the Deleted and Deferred SHS ha.

(2) Total Harvest ha. is the sum of FHP SHS Harvest ha. and Additions SHS

Variance Summary – Deleted From Net Landbase

Landbase	Area (ha)
Inventory Inconsistencies	222.0
Watercourse and Body Buffer Changes	61.1
Steep Terrain Removals	103.8
Land Use Changes	0.0
Operational and Isolation Changes	146.3
Public Concerns	81.3
Historical Removals	0.0
Aesthetic Removals	0.0
Sensitive Area Removals	138.6
GPS Anomalies	0.0

Variance Summary – Deferred from SHS

Landbase	Area (ha)
Inventory Inconsistencies	2.3
Public Concerns	0.0
Historical Removals	0.0
Aesthetic Removals	0.0
Isolated Stands	0.0
Structure Retention	0.0
Area Left for Wind Firmness	0.0

Variance Summary – Additions

Landbase	Area (ha)
Stands from the SHS outside of years 1-15	105.6
Stands that were not part of the net Landbase	0.0

7. Silviculture Information

The following incidental replacement area is based on AVI volume estimates from Alberta-Pacific FHP blocks in Planning Unit 080024. The remaining incidental coniferous volume from first entry blocks listed in Section 3 is generated from DC stands that are considered deciduous landbase; which will be replaced by the balanced silviculture declaration process.

The following table outlines the initial silviculture declarations for FHP blocks within Planning Unit 080024. Cover group balanced declarations will be submitted post harvest.

Alberta-Pacific Silviculture Declarations

Source Id	Area (ha)	Std_ Mod	Open_ Desig	Species_ Gr	Silv_ Harv
07902429161	3.6	D	CC	DE	CC
07902429271	3.6	D	CC	DE	CC
07902429481	2.0	D	CC	DE	CC
07902430861	26.6	D	AV	DE	CC
07902433631	2.3	D	CC	DE	CC
07902434661	11.8	D	CC	DE	CC
07902434871	2.4	D	CC	DE	CC
07902435471	15.6	D	CC	DE	CC
07902435791	44.8	D	CC	DE	CC
08001406271	21.7	CD	CC	MX	CC
08001407231	6.5	D	CC	DE	CC
08001418361	68.3	DC	CC	MX	CC
08001419411	3.7	D	CC	DE	CC
08002401431	8.1	D	CC	DE	CC
08002401461	28.6	D	CC	DE	CC
08002401581	6.4	D	CC	DE	CC
08002401831	31.3	DC	AV	MX	CC
08002403181	3.7	D	CC	DE	CC
08002403351	4.7	D	CC	DE	CC

Alberta-Pacific Silviculture Declarations (Cont.)

Source Id	Area	Std_	Open_	Species_	Silv_
	(ha)	Mod	Desig	Gr	Harv
08002403711	18.4	D	CC	DE	CC
08002403941	4.2	D	CC	DE	CC
08002404481	3.2	D	CC	DE	CC
08002404641	3.4	D	CC	DE	CC
08002404781	27.5	D	CC	DE	CC
08002405961	14.3	D	CC	DE	CC
08002406441	5.1	D	CC	DE	CC
08002406891	18.0	C	CC	SW	CC
08002406951	34.6	D	CC	DE	CC
08002407641	46.7	D	CC	DE	CC
08002407961	22.5	D	CC	DE	CC
08002408361	5.8	D	CC	DE	CC
08002408831	12.6	D	CC	DE	CC
08002411521	25.9	D	AV	DE	CC
08002411731	3.4	D	CC	DE	CC
08002412781	3.0	D	CC	DE	CC
08002413721	9.1	D	CC	DE	CC
08002413931	47.6	D	CC	DE	CC
08002414481	3.5	DC	CC	MX	CC
08002414791	6.5	D	CC	DE	CC
08002414851	3.0	D	CC	DE	CC
08002416171	12.8	D	CC	DE	CC
08002417431	38.2	C	CC	SW	CC
08002417571	5.0	D	CC	DE	CC
08002417741	24.1	D	CC	DE	CC
08002417771	2.2	DC	CC	MX	CC
08002418861	16.5	D	CC	DE	CC
08002419441	8.6	D	CC	DE	CC
08002419571	59.8	D	CC	DE	CC
08002419861	3.6	D	CC	DE	CC
08002420221	4.7	D	CC	DE	CC
08002420281	8.5	D	AV	DE	CC
08002420451	3.4	D	CC	DE	CC
08002420641	10.8	D	CC	DE	CC
08002421131	42.8	D	AV	DE	CC
08002422911	11.8	D	CC	DE	CC
08002423281	20.3	D	CC	DE	CC
08002423431	41.6	D	CC	DE	CC
08002424631	2.3	D	CC	DE	CC
08002424841	20.6	D	CC	DE	CC

Alberta-Pacific Silviculture Declarations (Cont.)

Source Id	Area	Std_	Open_	Species_	Silv_
	(ha)	Mod	Desig	Gr	Harv
08002425251	20.2	D	CC	DE	CC
08002426411	7.0	D	CC	DE	CC
08002426721	35.6	D	AV	DE	CC
08002426741	35.8	DC	CC	MX	CC
08002426861	21.5	D	CC	DE	CC
08002429121	16.7	D	CC	DE	CC
08002429621	26.6	D	AV	DE	CC
08003401781	56.8	D	AV	DE	CC
08003402771	37.3	D	CC	DE	CC
08003412291	49.9	D	CC	DE	CC
08003413371	39.1	D	CC	DE	CC
08003413431	4.4	D	CC	DE	CC
08003414171	21.7	D	CC	DE	CC
08003414231	5.8	D	CC	DE	CC
08003414681	63.5	D	CC	DE	CC
08003423231	8.6	D	CC	DE	CC
08003423661	17.7	D	CC	DE	CC
08003423861	0.9	D	CC	DE	CC
08003424261	13.2	D	AV	DE	CC
08003424461	2.6	D	CC	DE	CC
08003424481	5.0	D	CC	DE	CC
08003424731	61.7	C	CC	SW	CC
08003424771	12.7	D	CC	DE	CC
08003425621	4.7	D	CC	DE	CC
08003425671	61.1	D	CC	DE	CC
08003432381	45.1	C	CC	PN	CC
08003433911	108.5	D	AV	DE	CC
08003434291	4.7	C	CC	PN	CC
08003434681	4.0	C	CC	PN	CC
08003434761	9.8	D	CC	DE	CC
08003435231	56.9	D	CC	DE	CC
08003435251	8.4	D	CC	DE	CC
08003435281	4.6	C	CC	PN	CC
08003435881	8.0	D	CC	DE	CC
08003436271	4.7	D	CC	DE	CC
08003436371	3.0	CD	CC	MX	CC
08003436831	9.5	D	CC	DE	CC
08003436861	4.0	D	CC	DE	CC
08103401451	6.2	D	CC	DE	CC
08103402261	1.2	C	CC	PN	CC

Alberta-Pacific Silviculture Declarations (Cont.)

Source Id	Area (ha)	Std_ Mod	Open_ Desig	Species_ Gr	Silv_ Harv
08103402321	7.4	D	CC	DE	CC
08103403631	11.2	C	CC	PN	CC
08103403931	4.6	D	CC	DE	CC
08103405611	3.4	CD	CC	MX	CC
08103411451	58.9	D	PC	DE	UP
08103412531	14.1	D	AV	DE	CC

In the above table, the codes for “Std_Mod”, “Open_Type”, “Species_Gr” and “Silv_Harv” are as per the Alberta Regeneration Information System (ARIS) domain codes. If a block contains adequate amounts of Balsam Fir, so that fir is an acceptable coniferous regeneration species, a code of FA is used in the “Species_Gr”.

All deciduous blocks will be Leave for Natural (LFN). All coniferous blocks will be treated as per Appendix 4, of the FMP.

8. OGRs Variances

Blocks

The following blocks have boundary bordering lakes less than 4.0 hectares in size and a 30 metre buffer has been utilized.

08002420281 08002429121 08002429621
 08003402771 08003414171

SHS Tracking

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Total SHS in Planning Unit	2,030.9	319.2	12.3	896.3	3,258.7
FHP SHS Harvest ha.	1,418.9	113.1	0.0	89.5	1,621.5
Deleted SHS ha. (reportable)	323.6	86.5	8.4	341.7	760.2
Deferred SHS ha. (reportable)	2.3	0.0	0.0	0.0	2.3
Variance % ⁽¹⁾ (reportable)	18.7	43.3	99.7	79.2	31.9
Addition ha.	100.5	5.1	0.0	0.0	105.6
Bypassed ha.	50.3	80.7	2.6	374.0	507.6
Total Harvest ha. ⁽²⁾	1,519.4	118.2	0.0	89.5	1,727.1

The following table identifies blocks greater than 7.0 ha that may exceed 5 % road disturbance once turnabouts are constructed.

Road Percent

Source Id	% Road Class	Comments
07902430861	5	Extra road required due to rugged terrain.
07902434661	6	Narrow block and/or irregular shaped block.
08002401431	7	Narrow block and/or irregular shaped block.
08002401461	5	Narrow block and/or irregular shaped block.
08002401831	5	Extra Road required;understorey block;
08002405961	5	Extra road required due to rugged terrain.
08002422911	7	Extra decking space due to large timber and/or high volume.
08002424841	5	Extra road required; access to other blocks.
08002425251	5	Extra road required due to rugged terrain.
08002426411	6	Narrow block and/or irregular shaped block.
08002426721	5	Extra road required due to rugged terrain.
08003423231	5	Narrow block and/or irregular shaped block.
08002420281	6	Narrow block and/or irregular shaped block.
08003424771	5	Utilizing existing access.
08003435251	5	Narrow block and/or irregular shaped block.
08003436831	5	Narrow block and/or irregular shaped block.
08103402321	9	Narrow block and/or irregular shaped block.
08103403631	5	Narrow block and/or irregular shaped block.

The percent road class values have been achieved by rounding the road disturbance percent to the nearest whole number.

The following blocks contain >600 st/ha of White Spruce understorey but are too small for understorey protection methods, and will not have the understorey protected by avoidance or strips:

07902429271	08001419411	08002417571
08002420281	08003424261	08003435251
08003435881		

No understorey assessments will be submitted for these blocks.

Block 08002429261 contains >600 st/ha of White Spruce understorey, but contains terrain and will have the understorey protected by avoidance.

08002401831 contains clumps >600 st/ha of White Spruce understorey, but due to block size and shape will have the understorey protected by avoidance.

08103412531 contains >600 st/ha of White Spruce understorey, but due to block size and shape will have the understorey protected by avoidance.

Block 08002430861 contains clumps >600 st/ha of White Spruce understory 2 hectares , but contains terrain and will have the understorey protected by avoidance.

Roads

Road Comments

Road No.	Class	Comments
18361	4S	Road goes through 100m sensitive site buffer. Road utilizes previously cleared RoW.
20461	4S	Road goes through 100m sensitive site buffer. Road utilizes previously cleared RoW.
24771	4S	Road goes through 100m convergence buffer of two small permanent creeks. The road utilizes an existing RoW.

Roads Close to Watercourses

Road No.	Grid Location	Base Info	Field Call	Distance of Watercourse From Road	Habitat Rating
02771	0278	SL	SL	200	U
14681	1436	SL	SL	200	U
20281	2017	LL	LL	200	U
	2028	SL	SL	200	U
20451	2044	LL	LL	200	U
24841	1915	LP	LP	100	SF
29121	2912	SL	SL	200	U
	2932	SL	SL	200	U
29621	2058	SL	SL	200	U
33911	2525	SL	SL	200	U
	2775	LL	LL	200	U

The “Distance of Watercourse From Road” is the minimum distance allowed in Table 2 of the OGRs without ESRD approval. The roads listed are within those minimum distances. Please refer to the FHP map and layout block maps for more information.

In the above table, possible “Base Info” watercourse classifications are indefinite (E), intermittent (I), perennial (P) or unmapped (UM). The possible “Field Call” watercourse classifications are intermittent (I), transitional (T), small permanent (SP), large permanent (LP), lake < 4 ha (SL), lake ≥ 4 ha (LL). The “Habitat Rating” identifies watercourses surveyed as fish bearing or potentially fish bearing (SF), surveyed as non-fish bearing (SN) or unsurveyed (U). The “Field Call” watercourse classifications in the above table are based on Table 1 of the OGRs at the time, and during the conditions, when layout was conducted.