

# **Planning Unit 090204 Forest Harvest Plan**

## **1. Introduction**

This Forest Harvest Plan (FHP) for Planning Unit 090204 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 acceptance for a 5-year FHP approval under the 2014-15 Alberta-Pacific Forest Industries Inc. (Alberta-Pacific) Annual Operating Plan (AOP).

## **2. Planning Unit Specific Comments**

Planning Unit 090204 is located southeast of Chipewyan Lake.

The planning unit is located in Forest Management Unit (FMU) S22. Alberta-Pacific has rights to D, DC and D(C) as deciduous landbase and CD and C as shared coniferous landbase.

The harvest design utilizes the 2006 Spatial Harvest Sequence (SHS).

### **Integration**

This FHP is in FMU S22 and has been provided for review to Vanderwell Contractors (1971) Ltd. (Vanderwell).

Alberta-Pacific has received their agreement for this plan.

Vanderwell and the Community Timber Permit Program (CTPP) are allocated portions of the coniferous Annual Allowable Cut (AAC) from the C and CD cover groups within FMU S22 but not within this planning unit.

There are no active timber permits or licenses held by other users within this planning unit.

### **Watershed**

The Chipewyan River is fish bearing and has been buffered accordingly.

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 Alberta Environment and Sustainable Resource Development (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 will 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, no areas of concern were found.

### 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 Conif.	215	15,646	23,342	512	39,500
Alberta-Pacific Decid.	1,706	369,102	1,924	22,380	393,406

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

08921436661

09020406441

09020408261

All the blocks within this planning unit are outside a community FireSmart Zone. The piling of debris will be used as a method of slash abatement within these blocks.

#### 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)
08920432471	F	INC		4	530	0	17	547
08921436661	F	FMA		17	3,359	0	866	4,225
09020401441	F	INC		9	1,699	0	227	1,926
09020401661	F	INC		5	1,010	0	283	1,293
09020404661	F	INC		5	902	0	36	938
09020405241	F	INC		56	12,262	0	440	12,702
09020405261	F	INC		5	840	0	72	912
09020405481	F	INC		4	766	0	29	795
09020405681	F	INC		2	499	0	24	523
09020406261	F	INC		5	879	0	97	976
09020406421	F	INC		58	13,139	0	480	13,619
09020406441	F	FMA		5	609	0	370	979
09020406641	F	INC		35	8,096	0	333	8,429
09020407641	F	INC		391	91,079	155	3,672	94,906
09020408261	F	FMA		6	1,108	0	244	1,352
09020408531	F	INC		13	2,853	0	275	3,128
09020408661	F	INC		59	12,877	45	587	13,509
09020409221	F	INC	U	30	5,841	0	232	6,073
09020409621	F	INC		24	3,436	0	186	3,622
09020413281	F	INC		2	242	0	61	303
09020413471	F	INC		4	547	0	208	755

## 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)
09020413621	F	INC		34	6,816	270	621	7,707
09020414861	F	INC		21	3,488	18	155	3,661
09020414881	F	INC		8	1,165	0	36	1,201
09020415481	F	INC		11	2,573	0	80	2,653
09020416241	F	INC		1	225	0	7	232
09020417821	F	INC		3	425	0	14	439
09020417841	F	INC		18	4,046	0	125	4,171
09020418241	F	INC		19	2,932	235	196	3,363
09020418261	F	INC		2	331	0	10	341
09020418421	F	INC		4	931	0	29	960
09020418461	F	INC		3	643	0	20	663
09020418641	F	INC		3	691	0	21	712
09020418681	F	INC		5	797	0	89	886
09020419441	F	INC	U	17	3,017	0	242	3,259
09020419621	F	INC		5	757	0	84	841
09020419861	F	INC		4	392	139	111	642
09020419881	F	INC	U	23	3,172	0	98	3,270
09020420261	F	INC		9	1,405	0	44	1,449
09020420281	F	INC		4	580	0	65	645
09020420681	F	INC		11	1,944	0	60	2,004
09020421241	F	INC	U	68	17,964	29	729	18,722
09020421421	F	INC		174	45,366	0	1,438	46,804
09020422241	F	INC		9	1,398	0	155	1,553
09020423261	F	INC		27	4,441	410	230	5,081
09020423481	F	INC		22	4,216	0	309	4,525
09020423661	F	INC		35	4,914	360	690	5,964
09020426241	F	INC		17	3,709	0	116	3,825
09020426281	F	INC		7	1,424	0	58	1,482
09020426661	F	INC		6	974	0	62	1,036
09020427241	F	INC		11	2,563	0	247	2,810
09020427261	F	INC		5	788	0	116	904
09020427421	F	INC		13	2,380	0	82	2,462
09020427461	F	INC		7	1,407	0	165	1,572
09020427681	F	INC		26	5,816	0	515	6,331
09020427841	F	INC		18	3,761	0	182	3,943
09020427861	F	INC		6	1,701	0	54	1,755
09020428411	F	INC		27	7,237	0	854	8,091
09020428641	F	INC	U	78	19,062	263	1,382	20,707
09020428681	F	INC		18	3,720	0	115	3,835
09020428821	F	INC		58	12,059	0	2,178	14,237

### 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)
09020428861	F	INC		6	1,422	0	158	1,580
09020429231	F	INC		9	1,445	0	132	1,577
09020429441	F	INC	U	24	4,928	0	179	5,107
09020429681	F	INC		9	1,680	0	52	1,732
09020432821	F	INC		17	3,302	0	228	3,530
09020432841	F	INC	U	24	4,929	0	547	5,476
09020433441	F	INC		7	1,280	0	204	1,484
09021413811	F	INC	U	28	4,969	0	272	5,241
09021413831	F	INC		4	797	0	25	822
09021413891	F	INC		3	547	0	60	607
<b>Total</b>				<b>1,706</b>	<b>369,102</b>	<b>1,924</b>	<b>22,380</b>	<b>393,406</b>

The blocks in the above table with FMA for Conif Charge will be considered 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)
09020401641	F	FMA		30	536	6,037	9	6,582
09020421261	F	FMA		4	477	624	5	1,106
09020421481	F	FMA		3	316	441	1	758
09020426181	F	FMA		1	48	205	0	253
<b>Total</b>				<b>38</b>	<b>1,377</b>	<b>7,307</b>	<b>15</b>	<b>8,699</b>

### Alberta-Pacific Coniferous First Entry Block Listing – Jack Pine

(Values Affected by Rounding)

Source Id	Harvest Season	Conif Charge	Detail Plan	Area (ha)	Decid (m3)	Conif (m3)	Inc Conif (m3)	Total (m3)
08920431261	F	FMA		73	6,886	6,075	349	13,310
09020404861	F	FMA		11	424	1,140	2	1,566
09020404881	F	FMA		11	742	1,109	17	1,868
09020406241	F	FMA		9	906	655	12	1,573
09020408241	F	FMA		10	1,084	845	12	1,941
09020408421	F	FMA		3	117	438	0	555
09020409721	F	FMA		9	705	617	12	1,334
09020412681	F	FMA		5	265	541	3	809

**Alberta-Pacific Coniferous First Entry Block Listing –  
Jack Pine (Cont.)**

(Values Affected by Rounding)

<b>Source Id</b>	<b>Harvest Season</b>	<b>Conif Charge</b>	<b>Detail Plan</b>	<b>Area (ha)</b>	<b>Decid (m3)</b>	<b>Conif (m3)</b>	<b>Inc Conif (m3)</b>	<b>Total (m3)</b>
09020413641	F	FMA		8	920	620	73	1,613
09020414461	F	FMA		5	82	738	0	820
09020414841	F	FMA		6	104	863	0	967
09020419421	F	FMA		3	233	253	0	486
09020420241	F	FMA		3	40	358	0	398
09020420661	F	FMA		2	30	271	0	301
09020427781	F	FMA		3	26	260	0	286
09021412821	F	FMA		16	1,705	1,252	17	2,974
<b>Total</b>				<b>177</b>	<b>14,269</b>	<b>16,035</b>	<b>497</b>	<b>30,801</b>

**Retention Area Listing**

(Values Affected by Rounding)

<b>Block Id</b>	<b>Harvest Season</b>	<b>Status</b>	<b>Area (ha)</b>	<b>Decid (m3)</b>	<b>Conif (m3)</b>	<b>Inc Conif (m3)</b>	<b>Total (m3)</b>
01699			1	190	0	6	196
05199			2	312	0	111	423
07569			1	303	0	10	313
07639			6	817	183	119	1,119
07879			2	84	326	0	410
12999			2	368	0	11	379
13799			1	139	0	15	154
16499			8	2,085	0	64	2,149
19529			1	103	0	12	115
21739			3	899	0	28	927
24719			1	95	0	14	109
<b>Total</b>			<b>27</b>	<b>5,395</b>	<b>509</b>	<b>390</b>	<b>6,294</b>

#### 4. Access and Road Information

Landuse agreements will be in place prior to use of any third party dispositions being used. The following LOC's are used to access the planning unit from the Chip Lake Road: 5283, 760716 and 870012.

##### Planning Unit Temporary Road Information

Existing access has been utilized where possible to minimize the clearing of new Right of Way (RoW).

New access and channelled watercourse crossings will be reclaimed as per Section 11.3.4 of the OGRs. All terrain vehicle (ATV) access may be left to facilitate silviculture activities. 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
01441	4W	0.03	Frozen	0146		
01641	4W	1.33	Frozen			
01661	4W	3.12	Frozen	1232	E	U
				1491	SP	U
04661	4W	0.14	Frozen	0468		
05241	4W	1.54	Frozen			
05261	4W	0.59	Frozen	0527	E	U
05481	4W	0.52	Frozen	0537		
05681	4W	0.03	Frozen			
06261	4W	0.10	Frozen	0627	E	U
				0637	E	U
06421	4W	1.50	Frozen			
06441	4W	0.12	Frozen			
06641	4W	1.89	Frozen	0684		
07641	4W	7.98	Frozen	0648	E	U
				0686	E	U
				0756	T	U
				0819	E	U
				0825	E	U
				0826	E	U
				1735	I	U
08241	4W	0.38	Frozen			
08261	4W	0.02	Frozen			
08421	4W	0.18	Frozen			
08531	4W	0.92	Frozen	0548	I	U
08661	4W	2.57	Frozen			
09221	4W	0.75	Frozen			
09621	4W	1.19	Frozen	0942		
09721	4W	0.22	Frozen			

### Main Access and Crossings (Cont.)

Road No.	Class	Length (Km)	Construction Season	Crossing Location	Field Call	Navigability
12821	4W	0.74	Frozen			
13281	4W	0.22	Frozen			
13471	4W	0.18	Frozen			
13621	4W	0.82	Frozen			
13641	4W	1.24	Frozen	1344 1434 1484	B	U
13811	4W	1.40	Frozen			
13831	4W	0.36	Frozen	1823	E	U
13891	4W	0.30	Frozen			
14461	4W	1.91	Frozen			
14841	4W	0.76	Frozen			
14861	4W	1.26	Frozen			
14881	4W	0.57	Frozen			
15481	4W	3.02	Frozen	1634	E	U
16241	4W	0.25	Frozen			
17821	4W	0.41	Frozen			
17841	4W	0.81	Frozen	1782		
18241	4W	1.76	Frozen			
18261	4W	0.04	Frozen			
18421	4W	0.05	Frozen			
18461	4W	0.38	Frozen			
18641	4W	1.22	Frozen			
18681	4W	0.79	Frozen			
19441	4W	0.29	Frozen			
19621	4W	0.85	Frozen	1859	E	U
19861	4W	0.76	Frozen	1973	E	U
19881	4W	0.14	Frozen			
20241	4W	0.07	Frozen			
20261	4W	0.71	Frozen			
20281	4W	0.43	Frozen			
20661	4W	0.38	Frozen			
20681	4W	0.94	Frozen			
21241	4W	2.31	Frozen	1766 1797	E	U
21421	4W	4.60	Frozen	1616 1795	SP	U
22241	4W	0.19	Frozen			
23261	4W	1.49	Frozen			
23481	4W	0.02	Frozen	2326		
23661	4W	1.96	Frozen			
26241	4W	1.85	Frozen	2348 2622		
26281	4W	0.07	Frozen	2617	E	U
26661	4W	0.18	Frozen			
27241	4W	0.06	Frozen			
27261	4W	0.33	Frozen			
27421	4W	0.74	Frozen	2237		
27461	4W	0.26	Frozen	2736		
27681	4W	0.97	Frozen	2747		
27781	4W	0.17	Frozen			



### Main Access and Crossings (Cont.)

Road No.	Class	Length (Km)	Construction Season	Crossing Location	Field Call	Navigability
27841	4W	0.02	Frozen	2796		
27861	4W	0.54	Frozen	2788		
28411	4W	0.38	Frozen	2168		
28641	4W	1.44	Frozen	2872		
28681	4W	0.92	Frozen	2866		
28821	4W	2.95	Frozen	2186	E	U
28861	4W	0.31	Frozen	2886		
29231	4W	0.06	Frozen			
29441	4W	1.26	Frozen	2941	E	U
29681	4W	0.29	Frozen			
31261	4W	2.20	Frozen			
32471	4W	0.11	Frozen			
32821	4W	0.25	Frozen	3261		
32841	4W	0.58	Frozen			
33441	4W	0.70	Frozen			
36661	4W	1.18	Frozen	3666		
<b>Total Class 4W:</b>		<b>76.57</b>				
<b>Total Class 4S:</b>		<b>0.00</b>				
<b>Total Class 4P:</b>		<b>0.00</b>				

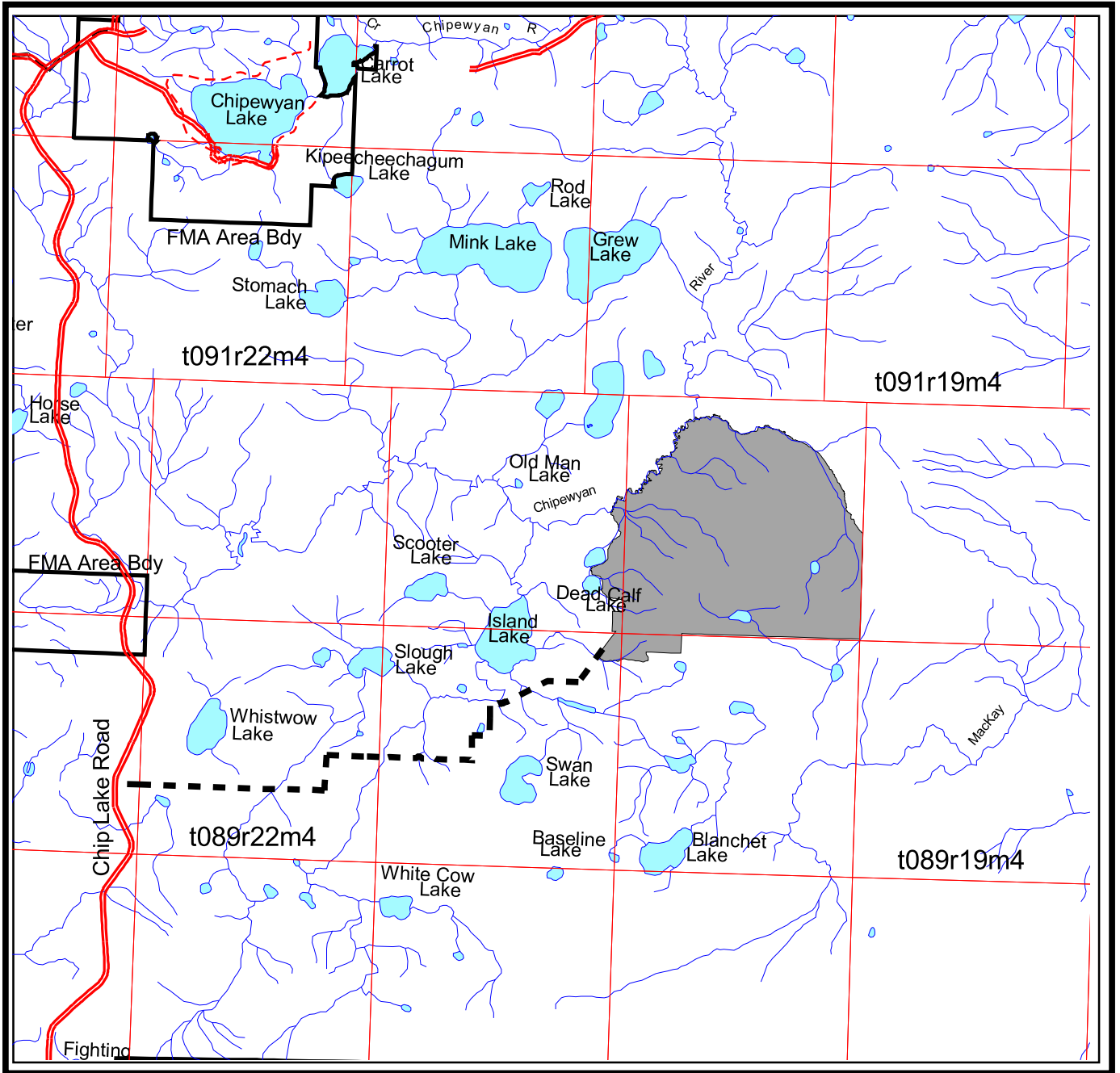
### Skid Trail Crossings

Road No.	Crossing Location	Field Call	Navigability
05261	0527	E	U

In the above tables, possible “Field Call” channelled 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 channelled watercourse (NW). The “Navigability” rating identifies channelled watercourse as being potentially navigable (N) or potentially unnavigable (U) based on the possibility of traveling the stream with a vessel. The “Field Call” channelled 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 090204

## Access Map



1:250000



Alberta-Pacific  
Forest Industries Inc.



TimberNorth  
CONSULTING

## **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 Wabasca field office 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 090204:

- 0044
- 0892

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) 518 have been notified of Alberta-Pacific's harvest plans within Planning Unit 090204:

- |        |        |        |
|--------|--------|--------|
| - 0163 | - 0858 | - 0995 |
| - 0401 | - 0872 | - 1034 |
| - 0709 | - 0881 | - 1137 |
| - 0834 | - 0956 |        |

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**

Areas of concern that were predicted by the archaeologist's pre-screening model have been removed from the plan or placed into RAs. 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 June 19, 2013, there are currently no dispositions within this planning unit that restrict harvesting timber.

The following dispositions have been removed from the harvest design: MSL 102262 and MSL 083147.

## **Wildlife**

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

No areas of concentrated terrestrial lichens were identified during layout.

All known sensitive wildlife sites have been buffered according to section 7.7.6.2 of the OGRs. These buffers have been placed into RAs.

## ***Block Design***

Areas of timber to be used as stand structure have been strategically chosen to break up the line of sight in larger blocks. These have been delineated on the maps as RAs.

## ***Access and Access Management***

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

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. Integration with Affected Forest Companies

Vanderwell signed off February 12, 2014 regarding this plan.

## 7. Spatial Harvest Sequence Summary

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

<b>SHS Tracking</b>					
<b>SHS Tracking</b>	<b>Decid. Cover Type</b>	<b>Sw Cover Type</b>	<b>Sb Cover Type</b>	<b>Pj Cover Type</b>	<b>Total Cover Type</b>
Total SHS in Planning Unit	1,856.1	41.7	0.0	163.8	2,061.6
FHP SHS Harvest ha.	1,605.3	34.1	0.0	136.0	1,775.4
Deleted SHS ha. (reportable)	113.9	0.0	0.0	9.0	122.9
Deferred SHS ha. (reportable)	0.0	0.0	0.0	0.0	0.0
Variance % <sup>(1)</sup> (reportable)	6.1%	0.0%	0.0%	5.5%	6.0%
Addition ha.	62.5	0.0	0.0	0.0	62.5
Bypassed ha.	0.0	0.0	0.0	0.0	0.0
Total Harvest ha. <sup>(2)</sup>	1,667.8	34.1	0.0	136.0	1,837.9

(1) Variance % is the Deleted and Deferred SHS ha. expressed as a percentage of the Total SHS in the Planning Unit.

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

## 8. Silviculture Information

The following table outlines the initial silviculture declarations for FHP blocks within Planning Unit 090204. 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
08920431261	72.8	C	CC	PN	CC
08920432471	4.1	D	CC	DE	CC
08921436661	17.3	D	CC	DE	CC
09020401441	8.8	D	CC	DE	CC
09020401641	29.7	C	CC	SW	CC
09020401661	5.3	D	CC	DE	CC
09020404661	5.2	D	CC	DE	CC
09020404861	10.7	C	CC	PN	CC
09020404881	11.0	C	CC	PN	CC
09020405241	55.5	D	CC	DE	CC
09020405261	5.2	D	CC	DE	CC
09020405481	3.6	D	CC	DE	CC
09020405681	2.3	D	CC	DE	CC
09020406241	8.7	C	CC	SW	CC
09020406261	5.4	D	CC	DE	CC
09020406421	57.5	D	CC	DE	CC
09020406441	4.8	D	CC	DE	CC
09020406641	34.8	D	CC	DE	CC
09020407641	390.5	D	AV	DE	CC
09020408241	10.3	C	CC	PN	CC
09020408261	6.0	D	CC	DE	CC
09020408421	3.3	C	CC	PN	CC
09020408531	13.1	D	CC	DE	CC
09020408661	59.0	D	CC	DE	CC
09020409221	30.3	D	PC	DE	UP
09020409621	23.7	D	CC	DE	CC
09020409721	8.5	C	CC	SW	CC
09020412681	4.8	C	CC	PN	CC
09020413281	1.7	D	CC	DE	CC
09020413471	4.1	D	CC	DE	CC
09020413621	34.3	D	CC	DE	CC
09020413641	8.3	C	CC	SW	CC
09020414461	5.3	C	CC	PN	CC
09020414841	6.5	C	CC	PN	CC

**Alberta-Pacific Silviculture Declarations (Cont.)**

<b>Source Id</b>	<b>Area (ha)</b>	<b>Std_ Mod</b>	<b>Open_ Desig</b>	<b>Species_ Gr</b>	<b>Silv_ Harv</b>
09020414861	21.3	D	CC	DE	CC
09020414881	7.7	D	CC	DE	CC
09020415481	11.0	D	CC	DE	CC
09020416241	1.0	D	CC	DE	CC
09020417821	2.8	D	CC	DE	CC
09020417841	18.0	D	CC	DE	CC
09020418241	19.0	D	CC	DE	CC
09020418261	1.9	D	CC	DE	CC
09020418421	4.0	D	CC	DE	CC
09020418461	2.9	D	CC	DE	CC
09020418641	3.2	D	CC	DE	CC
09020418681	5.2	D	CC	DE	CC
09020419421	2.9	C	CC	PN	CC
09020419441	16.6	D	PC	DE	UP
09020419621	4.8	D	CC	DE	CC
09020419861	4.0	D	CC	DE	CC
09020419881	22.5	D	PC	DE	UP
09020420241	2.7	C	CC	PN	CC
09020420261	8.6	D	CC	DE	CC
09020420281	3.8	D	CC	DE	CC
09020420661	2.0	C	CC	PN	CC
09020420681	11.2	D	CC	DE	CC
09020421241	68.0	D	PC	DE	UP
09020421261	4.4	C	CC	SW	CC
09020421421	174.2	D	CC	DE	CC
09020421481	3.2	C	CC	SW	CC
09020422241	8.7	D	CC	DE	CC
09020423261	26.9	D	CC	DE	CC
09020423481	22.1	D	AV	DE	CC
09020423661	35.2	D	CC	DE	CC
09020426181	1.2	C	CC	SW	CC
09020426241	16.6	D	AV	DE	CC
09020426281	7.4	D	CC	DE	CC
09020426661	6.2	D	CC	DE	CC
09020427241	11.0	D	CC	DE	CC
09020427261	4.7	D	CC	DE	CC
09020427421	13.1	D	CC	DE	CC
09020427461	6.7	D	CC	DE	CC
09020427681	25.8	D	AV	DE	CC
09020427781	2.8	C	CC	PN	CC
09020427841	18.1	D	AV	DE	CC



**Alberta-Pacific Silviculture Declarations (Cont.)**

<b>Source Id</b>	<b>Area (ha)</b>	<b>Std_ Mod</b>	<b>Open_ Desig</b>	<b>Species_ Gr</b>	<b>Silv_ Harv</b>
09020427861	6.4	D	AV	DE	CC
09020428411	27.3	D	CC	DE	CC
09020428641	77.6	D	PC	DE	UP
09020428681	17.7	D	CC	DE	CC
09020428821	58.0	D	CC	DE	CC
09020428861	5.9	D	CC	DE	CC
09020429231	9.0	D	AV	DE	CC
09020429441	24.3	D	PC	DE	UP
09020429681	8.9	D	CC	DE	CC
09020432821	17.2	D	CC	DE	CC
09020432841	24.4	D	PC	DE	UP
09020433441	7.1	D	CC	DE	CC
09021412821	16.1	C	CC	SW	CC
09021413811	28.0	D	PC	DE	UP
09021413831	4.4	D	CC	DE	CC
09021413891	3.4	D	CC	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. “AV” under “Open\_Desig” is not an ARIS code but is used internally for the tracking of understorey avoidance blocks. 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.

## 9. OGRs Variances

### Blocks

The base-mapped lakes bordering Blocks 09020406241, 09020406261, 09020406641 and 09021412821 are greater than 4.0 hectares; however, the lakes were discovered to be beaver ponds. A 30 metre buffer has been utilized on these ponds.

All the blocks within this planning unit are outside a community FireSmart Zone. The piling of debris will be used as a method of slash abatement within these blocks.

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
09020401441	5	May exceed 5% if a turnaround is required. Narrow block and/or irregular shaped block.
09020409621	5	Extra road required; Access to other blocks.
09020420261	5	Extra road required; Access to other blocks.
09020420681	5	Extra road required; Access to other blocks.
09020429231	5	May exceed 5% if a turnaround is required. Irregular shaped block.
09020433441	5	Extra road required; Access to other blocks.

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

Blocks 09020427841 and 09020427861 contain  $\geq 600$  stems/ha of White Spruce understorey. However, due to irregular block shapes, they will not have high intensity understorey protection and will be harvested using avoidance methods.

The following blocks contain  $\geq 600$  stems/ha of White Spruce understorey but are too narrow or small for understorey protection methods, and will not have the understorey protected by avoidance or high intensity understorey protection:

09020420261                      09020420281                      09021413891

No understorey assessments will be submitted for these blocks.

## Roads

### Roads Close to Watercourses

Road No.	Grid Location	Base Info	Field Call	Distance of Watercourse From Road	Habitat Rating
01661	1197	LL	LL	200	U
06261	0637	SL	BP	200	U
07641	1262	LL	LL	200	U
12821	0619	SL	BP	200	U
13891	1387	SL	BP	200	U
29441	2943	SL	BP	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), unmapped (UM) ), lake < 4 ha (SL) or lake ≥ 4 ha (LL). 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), beaver pond (BP). 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.