



Vanderwell Contractors Ltd.  
and  
Alberta-Pacific Forest Industries  
Inc.

**Forest Harvest Plan**

Forest Management Unit:

**S18**

**Forest Harvest Plan- PU082015**

FMA 9100029

S18 Jo06

Date Submitted: May 1, 2019

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# Forest Harvest Plan

## Planning Unit 082015

### Contents

<b>1.0 Introduction .....</b>	<b>5</b>
<b>2.0 General Planning Unit Information /Design Considerations .....</b>	<b>5</b>
2.1 Operating Ground Rules.....	5
<b>3.0 Maps.....</b>	<b>5</b>
<b>4.0 Block Information .....</b>	<b>6</b>
4.1 Utilization .....	6
4.2 Field verification .....	6
4.3 Understory Assessment .....	6
4.4 Structure Retention .....	9
4.5 Debris Management .....	9
4.6 Camp Location .....	9
<b>5.0 Watercourse Protection .....</b>	<b>9</b>
<b>6.0 Road Information.....</b>	<b>11</b>
<b>7.0 Land Use Information.....</b>	<b>12</b>
<b>8.0 Integration with Other Forest Users .....</b>	<b>13</b>
8.1 Integration with Other Harvest Operators .....	13
8.2 Registered Fur Management Areas (RFMAs).....	13
8.3 Wildlife Management Unit(s) (WMU).....	14
8.4 Indigenous Groups .....	14
8.5 Other Forest Users.....	14
8.6 Forest Aesthetics.....	14
<b>9.0 Species and Areas of Concern.....</b>	<b>15</b>
9.1 Woodland Caribou .....	15
9.2 Key Wildlife and Biodiversity Zone (KWBZ) .....	15
9.3 Other Species .....	15
9.4 Sensitive Sites .....	15
9.5 Forest Health .....	15

<b>10.0 SHS Information / Variance Summary .....</b>	<b>15</b>
<b>11.0 OGR Deviations .....</b>	<b>15</b>
<b>12.0 Validation by Registered Forest Practitioner .....</b>	<b>17</b>

## List of Tables

<b>Table 1: Block Summary Table .....</b>	<b>6</b>
<b>Table 2: Camp Location Table .....</b>	<b>9</b>
<b>Table 3: Watercourse Crossing Summary .....</b>	<b>10</b>
<b>Table 4: Road Attributes .....</b>	<b>11</b>
<b>Table 5: Land Use Summary Table .....</b>	<b>13</b>
<b>Table 6: Trapper Areas Table .....</b>	<b>13</b>
<b>Table 7: Guide and Outfitters .....</b>	<b>14</b>
<b>Table 8: Road Percent Deviations Table .....</b>	<b>15</b>

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# Report

## 1.0 Introduction

Alberta – Pacific Forest Industries Inc. (Alberta–Pacific) and Vanderwell Contractors (1971) Ltd. (Vanderwell) have prepared a Forest Harvest Plan (FHP) for the harvest of deciduous and coniferous stands within Planning Unit 082015.

Planning Unit 082015 is located along the Muskwa Road within Forest Management Unit (FMU) S18.

Copies of this Forest Harvest Plan are available on the Alberta–Pacific website, at [www.alpac.ca](http://www.alpac.ca).

## 2.0 General Planning Unit Information /Design Considerations

This FHP has been validated by a Registered Forestry Professional from Alberta-Pacific and a representative of Vanderwell.

This FHP includes maps and reports that clearly show and document the planned harvest area boundaries, roads and water crossings within the Planning Unit.

This plan is being submitted for appraisal, for a 5-year FHP approval under the 2019-2020 Alberta-Pacific and Vanderwell Annual Operating Plan (AOP).

### 2.1 Operating Ground Rules

Planning Unit 082015 has been designed in accordance with the Northeast Alberta Operating Ground Rules (OGRs). Alberta – Pacific and Vanderwell 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.



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## 4.0 Block Information

A *Block Summary Table* has been included below outlining the expected volumes of the harvest area.

### 4.1 Utilization

Deciduous and coniferous stands will adhere to the 15/10 utilization standard.

### 4.2 Field verification

The proposed blocks were ground verified by a field layout team during the summer of 2018. The layout team provided planning support to assess timber quality, sensitive and historical sites, operability of the harvest area, and classification of water courses within the Planning Unit boundary. Where applicable, the findings of the layout team have been noted in the corresponding section of this report.

### 4.3 Understory Assessment

White Spruce understory within deciduous landbase will be protected utilizing high effort understory protection in stands identified as greater than 600 stems/ha by the Alberta Vegetation Inventory (AVI), as well as any potential areas found to have understory present that is not identified by the AVI. Any deciduous blocks found to have understory amounting to between 400 stems/ha and 600 stems/ha will be protected utilizing the avoidance method.

Blocks requiring understory protection or understory avoidance are noted within the *Block Summary Table*.

## Block Summary Table

Table 1: Block Summary Table

This table provides a brief description of the proposed harvest blocks within the Planning Unit.

Deciduous Blocks						
<i>Source ID</i>	<b>Opening Number</b>	<b>Harvest Season (Frozen/ Non-Frozen)</b>	<b>Area (ha)</b>	<b>Deciduous Volume (m<sup>3</sup>)</b>	<b>Incidental Conifer Volume (m<sup>3</sup>)</b>	<b>Total Volume (m<sup>3</sup>)</b>
FC08201504241	5010820424	Non-Frozen	19.3	3,767.7	1,319.5	5,087.2
FC08201505161*	5010820516	Non-Frozen	26.3	5,558.3	1,120.4	6,678.7
FC08201505491*	5010820549	Non-Frozen	36.2	8,016.7	1,193.5	9,210.2
FC08201507191*	5010820719	Non-Frozen	8.3	1,798.7	217.6	2,016.4
FC08201507251*	5010820725	Non-Frozen	9.3	1,810.1	576.5	2,386.6
FC08201507591	5010820759	Non-Frozen	48.2	11,482.5	1,269.5	12,752.0



FC08201508131	5010820813	Non-Frozen	26.5	5,843.5	777.3	6,620.8
FC08201508671*	5010820867	Frozen	15.3	3,282.3	464.6	3,746.9
FC08201516311*	5010821631	Non-Frozen	11.2	2,153.9	554.5	2,708.4
FC08201518381	5010821838	Non-Frozen	58.0	10,394.7	1,398.9	11,793.6
FC08201518941	5010821894	Frozen	21.1	4,016.8	515.3	4,532.1
FC08201530131*	5010823013	Non-Frozen	55.1	11,727.8	2,292.8	14,020.6
FC08201530161*	5010823016	Non-Frozen	19.1	3,487.5	869.6	4,357.1
FC08201531131*	5010823113	Non-Frozen	68.5	12,363.3	2,547.7	14,911.0
FC08201531481*	5010823148	Non-Frozen	17.5	3,621.4	621.6	4,243.1
FC08202513251*	5020821325	Non-Frozen	4.7	487.5	410.8	898.3
FC08202513521	5020821352	Non-Frozen	4.4	616.2	155.1	771.3
FC08202519251	5020821925	Non-Frozen	41.6	7,122.6	1,985.4	9,108.0
FC08202522241*	5020822224	Non-Frozen	5.8	1,082.4	127.8	1,210.2
FC08202523281	5020822328	Non-Frozen	13.2	2,647.4	828.6	3,476.0
FC08202523691*	5020822369	Frozen	10.5	2,138.5	747.9	2,886.4
FC08202523811*	5020822381	Non-Frozen	17.4	3,409.2	262.8	3,672.0
FC08202524271*	5020822427	Non-Frozen	41.8	8,704.8	2,054.2	10,758.9
FC08202524961*	5020822496	Non-Frozen	4.9	978.9	349.0	1,327.9
FC08202525541*	5020822554	Non-Frozen	138.8	27,531.4	5,390.1	32,921.5
FC08202526131	5020822613	Non-Frozen	23.9	3,702.9	1,714.7	5,417.5
FC08202527151*	5020822715	Non-Frozen	2.1	323.7	65.1	388.8
FC08202527371*	5020822737	Non-Frozen	1.6	236.2	41.1	277.4
FC08202527731*	5020822773	Non-Frozen	49.7	8,482.5	1,930.3	10,412.8
FC08202534631*	5020823463	Non-Frozen	107.7	17,376.7	3,718.1	21,094.8
FC08202534811*	5020823481	Non-Frozen	11.7	2,322.6	520.3	2,842.8
FC08202535491*	5020823549	Non-Frozen	75.4	12,063.1	2,792.5	14,855.6
FC08202535611*	5020823561	Non-Frozen	16.7	2,884.5	693.7	3,578.2
FC08202536271*	5020823627	Frozen	5.2	850.5	190.0	1,040.5
FC08202536411*	5020823641	Non-Frozen	5.5	863.0	172.4	1,035.4
FC08202536521*	5020823652	Non-Frozen	35.8	6,296.6	1,254.8	7,551.4
FC08301506251*	5010830625	Frozen	10.2	1,497.9	324.1	1,822.1
FC08301531191*	5010833119	Frozen	60.8	10,777.2	1,906.7	12,684.0
FC08302501371*	5020830137	Frozen	21.2	3,374.3	705.5	4,079.8
FC08302501631*	5020830163	Frozen	45.6	6,968.3	1,709.0	8,677.3
FC08302501871*	5020830187	Frozen	10.0	1,527.0	458.2	1,985.3
FC08302502841*	5020830284	Non-Frozen	67.6	12,567.3	1,918.4	14,485.7
FC08302503821*	5020830382	Non-Frozen	5.3	750.8	134.6	885.4
<b>Total</b>			<b>1,279.2</b>	<b>236,909.3</b>	<b>48,300.5</b>	<b>285,209.9</b>

\* Understory Block: These block contains under 600 stems/ha and will be harvested using the avoidance method.



Coniferous Blocks						
<i>Source ID</i>	<b>Opening Number</b>	<b>Harvest Season</b>	<b>Area (ha)</b>	<b>Conifer Volume (m³)</b>	<b>Incidental Deciduous Volume (m³)</b>	<b>Total Volume (m³)</b>
NC08101532484	5010813248	Frozen	10.3	1,765.8	591.3	2,357.1
NC08101532784	5010813278	Frozen	13.5	2,614.8	830.9	3,445.8
NC08101532974	5010813297	Non-Frozen	12.9	2,637.9	605.8	3,243.7
NC08101533374	5010813337	Non-Frozen	20.0	3,820.2	1,133.7	4,953.9
NC08201530144	5010823014	Non-Frozen	6.1	613.0	936.7	1,549.7
NC08201530594	5010823059	Frozen	5.4	534.2	743.0	1,277.2
NC08201531294	5010823129	Frozen	3.9	806.5	197.8	1,004.3
NC08201531334	5010823133	Non-Frozen	3.7	548.4	356.5	904.8
NC08202511724	5020821172	Frozen	6.1	933.6	99.8	1,033.4
NC08202512154	5020821215	Frozen	27.1	4,113.8	2,020.2	6,134.0
NC08202522184	5020822218	Frozen	12.8	944.9	434.4	1,379.3
NC08202522664	5020822266	Non-Frozen	21.7	3,845.6	1,532.0	5,377.6
NC08202522894	5020822289	Non-Frozen	4.4	689.9	517.7	1,207.5
NC08202522964	5020822296	Non-Frozen	7.3	1,261.1	759.2	2,020.3
NC08202523384	5020822338	Frozen	1.7	279.3	155.2	434.5
NC08202523794	5020822379	Frozen	2.1	339.7	220.0	559.7
NC08202527564	5020822756	Frozen	20.7	3,055.5	1,130.2	4,185.7
NC08202527994	5020822799	Frozen	82.6	13,224.7	3,497.7	16,722.4
NC08202528754	5020822875	Non-Frozen	4.4	527.1	49.0	576.1
NC08202535184	5020823518	Non-Frozen	2.5	478.1	143.0	621.1
NC08202535234	5020823523	Non-Frozen	3.2	275.9	245.5	521.4
NC08202535294	5020823529	Non-Frozen	1.3	192.7	105.0	297.7
NC08202535554	5020823555	Non-Frozen	13.9	2,792.3	748.2	3,540.5
NC08202535674	5020823567	Non-Frozen	10.4	2,002.1	721.8	2,723.9
NC08202535934	5020823593	Frozen	6.0	1,365.6	222.2	1,587.9
NC08202535984	5020823598	Frozen	2.2	160.6	264.3	424.9
NC08202536254	5020823625	Frozen	11.8	2,302.0	682.4	2,984.4
NC08202536294	5020823629	Frozen	5.0	488.8	199.6	688.4
NC08202536784	5020823678	Frozen	1.2	200.3	96.6	296.9
NC08202536884	5020823688	Frozen	2.3	412.5	170.6	583.1
NC08202536894	5020823689	Frozen	0.8	150.4	48.6	199.0
NC08202536914	5020823691	Non-Frozen	3.5	577.8	310.2	888.1
NC08202536954	5020823695	Frozen	5.9	761.6	532.7	1,294.3
NC08301506214	5010830621	Frozen	5.2	934.9	345.0	1,280.0

NC08301506264	5010830626	Frozen	17.6	2,247.5	455.3	2,702.7
<b>Total</b>			<b>359.4</b>	<b>57,899.1</b>	<b>21,102.4</b>	<b>79,001.4</b>

#### 4.4 Structure Retention

Alberta- Pacific will leave an average of 5% merchantable volume and Vanderwell will leave an average of 3% merchantable volume for structure retention throughout the FMU. Structure retention will be left in the following methods:

- Laid out patches
- Individual trees
- Small clumps left at the operators' discretion

#### 4.5 Debris Management

Planning Unit 082015 is situated within Alberta's Fire Control Zone number 46 as identified by Alberta Agriculture and Forestry (AAF).

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 few camp locations for logging operations within this Planning Unit. The campsites will be reclaimed as indicated in Section 11.3.4.4 of the Northeast Alberta Timber Harvesting Planning and Operating Ground Rules (OGRs).

### **Camp Location Table**

Table 2: Camp Location Table

This table provides a brief description of the proposed camp locations in the Planning Unit.

Block Number	Opening Number	GRID	LAT	LONG
FCo8201525541	5020822554	74	56.136	-114.2
FCo8201534631	5020823463	41	56.147	-114.2
FCo820151631	5020830163	52	56.163	-114.2

## **5.0 Watercourse Protection**

During the preliminary planning of Planning Unit 082015, potential watercourses were identified using wet areas mapping, LiDAR data, aerial imagery, as well as the available AVI data.



Where harvest blocks are in proximity to any potential watercourses, the field layout team conducted field assessments utilizing the methodology and classification standards outlined in Section 6.0 of the OGRs. Any confirmed watercourses have been buffered in accordance with the OGRs Section 6.0.

Any deviations from the OGRs in relation to the watercourse buffers are noted in this report; please refer to the *OGR Deviations* section of the report for further information.

### Watercourse Crossing Summary Table

**Table 3: Watercourse Crossing Summary**

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

<b>Road ID</b>	<b>Watercourse Classification</b>	<b>Crossing ID (Road Crossing Number)</b>
LOC941560	EPHEMERAL	3639
LOC941560	EPHEMERAL	3638
RC08202536521	EPHEMERAL	3658
RC08202536521	EPHEMERAL	3655
RC08202536521	EPHEMERAL	3659
RC08202536521	EPHEMERAL	0160
RC08202536521	EPHEMERAL	3649
RC08202536521	EPHEMERAL	3653
RC08302502841	EPHEMERAL	0292
RC08302502841	EPHEMERAL	0290
RC08302502841	EPHEMERAL	0294
RC08302502841	EPHEMERAL	0291
RC08202535491	EPHEMERAL	3566
RC08202535491	EPHEMERAL	3574
RC08201531131	EPHEMERAL	2588
RC08301531191	EPHEMERAL	3678
RC08202534631	EPHEMERAL	3483
RC08101532784	EPHEMERAL	3289
RC08101532784	EPHEMERAL	3266
RC08202535674	EPHEMERAL	3567
RC08202535294	EPHEMERAL	0240
RC08202535984	EPHEMERAL	3598
RC08202536254	EPHEMERAL	3617
RC08202536254	EPHEMERAL	3608

## 6.0 Road Information

Overview maps have been attached showing roads in accordance with Section 3.4.7. of the OGRs; all spatial data requirements have also been included with this submission.

Roads will be constructed, maintained, and reclaimed in a manner consistent with Section 11.3 of the OGRs.

When new access is necessary, reclamation processes will adhere to Section 11.3.4, Section 11.3.4.3 and Section 11.3.4.4 of the OGRs. To enable for silviculture activities, all-terrain vehicle (ATV) access may be left throughout the harvest area.

### Road Attributes Table

Table 4: Road Attributes

Summary of the proposed in-block roads of the Planning Unit.

<i>Road ID</i>	<b>Road Classification</b>	<b>Haul Season</b>	<b>Length, m</b>
RC08101532974	Temporary	Non-Frozen	172.8
RC08101533374	Temporary	Non-Frozen	61.3
RC08201505161	Temporary	Non-Frozen	99.0
RC08201505491	Temporary	Non-Frozen	914.9
RC08201507191	Temporary	Non-Frozen	180.0
RC08201507591	Temporary	Non-Frozen	2,245.6
RC08201508131	Temporary	Non-Frozen	333.7
RC08201516311	Temporary	Non-Frozen	744.8
RC08201518381	Temporary	Non-Frozen	1,377.7
RC08201530131	Temporary	Non-Frozen	1,124.3
RC08201530144	Temporary	Non-Frozen	172.0
RC08201531131	Temporary	Non-Frozen	3,024.4
RC08202513521	Temporary	Non-Frozen	803.4
RC08202519251	Temporary	Non-Frozen	2,093.2
RC08202522241	Temporary	Non-Frozen	99.4
RC08202522664	Temporary	Non-Frozen	1,757.8
RC08202522894	Temporary	Non-Frozen	88.0
RC08202522964	Temporary	Non-Frozen	35.9
RC08202523281	Temporary	Non-Frozen	761.9
RC08202523811	Temporary	Non-Frozen	585.0
RC08202524271	Temporary	Non-Frozen	2,370.3
RC08202524961	Temporary	Non-Frozen	42.1
RC08202525541	Temporary	Non-Frozen	2,530.1
RC08202527151	Temporary	Non-Frozen	249.3
RC08202527731	Temporary	Non-Frozen	580.2



RC08202534631	Temporary	Non-Frozen	1,803.0
RC08202535184	Temporary	Non-Frozen	25.5
RC08202535294	Temporary	Non-Frozen	120.6
RC08202535491	Temporary	Non-Frozen	3,274.3
RC08202535554	Temporary	Non-Frozen	511.0
RC08202535611	Temporary	Non-Frozen	930.8
RC08202536521	Temporary	Non-Frozen	2,452.8
RC08302502841	Temporary	Non-Frozen	2,545.2
RC08101532484	Temporary	Frozen	247.5
RC08101532784	Temporary	Frozen	386.1
RC08201508671	Temporary	Frozen	157.6
RC08202511724	Temporary	Frozen	282.4
RC08202512154	Temporary	Frozen	2,651.6
RC08202522184	Temporary	Frozen	709.2
RC08202523384	Temporary	Frozen	368.6
RC08202523691	Temporary	Frozen	828.3
RC08202527564	Temporary	Frozen	126.4
RC08202527994	Temporary	Frozen	1,868.8
RC08202535674	Temporary	Frozen	209.8
RC08202535934	Temporary	Frozen	222.3
RC08202535984	Temporary	Frozen	128.6
RC08202536254	Temporary	Frozen	549.8
RC08202536271	Temporary	Frozen	197.9
RC08202536784	Temporary	Frozen	187.5
RC08202536884	Temporary	Frozen	137.9
RC08202536894	Temporary	Frozen	122.6
RC08301506214	Temporary	Frozen	297.2
RC08301506251	Temporary	Frozen	979.8
RC08301506264	Temporary	Frozen	295.3
RC08301531191	Temporary	Frozen	770.7
RC08302501371	Temporary	Frozen	963.0
RC08302501631	Temporary	Frozen	445.1
RC08302501871	Temporary	Frozen	160.8

## 7.0 Land Use Information

A search of the Geographic Land Information Management and Planning System (GLIMPS) and Digital Integrated Dispositions (DIDs) yielded active dispositions within the FHP. Any necessary agreements with the disposition holder will be in place prior to the commencement of harvest operations. None of the dispositions within the FHP will restrict harvest operations in the FHP.

## Land Use Summary Table

Table 5: Land Use Summary Table  
Active dispositions in the Planning Unit

Disposition Number	Disposition Holder	Disposition Type
LOC941560	HUSKY OIL OPERATIONS LIMITED	LOC
LOC761109	HUSKY OIL OPERATIONS LIMITED	LOC
LOC022820	HUSKY OIL OPERATIONS LIMITED	LOC
LOC982454	HUSKY OIL OPERATIONS LIMITED	LOC
LOC122585	CENOVUS ENERGY INC.	LOC
DLO942282	ALBERTA-PACIFIC FOREST INDUSTRIES INC.	DLO
DLO011439	WOLF CONTRACTORS INCORPORATED	DLO
LOC931787	CANADIAN NATURAL RESOURCES LIMITED	LOC
LOC942747	CANADIAN NATURAL RESOURCES LIMITED	LOC

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

### 8.0 Integration with Other Forest Users

#### 8.1 Integration with Other Harvest Operators

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

#### 8.2 Registered Fur Management Areas (RFMAs)

There are 4 RFMAs within the FHP who will be affected by operations. Notification letters were sent to the respective RFMA holders, any requests from any RFMA holder have been considered, and, where possible, the harvest design has been planned to accommodate the request.

## Trapper Areas Table

Table 6: Trapper Areas Table  
RFMA holders affected by harvest operations.

RFMA ID	Notification Method	Contact Method
37 & 47	Letter	Mail
610	Letter	Mail
160	Letter	Mail



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### 8.3 Wildlife Management Unit(s) (WMU)

Planning Unit 82015 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.

#### **Guide and Outfitters Table**

**Table 7: Guide and Outfitters**  
List of Guide and Outfitters active in 542.

<b>OG ID Number</b>	<b>Date</b>	<b>Contact Method</b>
23G	June 05, 2018	Letter
66G	June 05, 2018	Letter
123G	June 05, 2018	Letter
490G	June 05, 2018	Letter
869G	June 05, 2018	Letter
995G	June 05, 2018	Letter
1060G	June 05, 2018	Letter

### 8.4 Indigenous Groups

During the General Development Plan (GDP) process, Alberta – Pacific and Vanderwell conduct consultations with indigenous groups every year. There have not been any issues identified for the Planning Unit 082015 FHP submission.

### 8.5 Other Forest Users

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

### 8.6 Forest Aesthetics

As outlined in Section 5.5. of the OGRs, Alberta – Pacific and Vanderwell 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.

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## **9.0 Species and Areas of Concern**

### 9.1 Woodland Caribou

Planning Unit 082015 is not located within Woodland Caribou Zone.

### 9.2 Key Wildlife and Biodiversity Zone (KWBZ)

Planning Unit 82015 is not located within a Key Wildlife and Biodiversity Zone.

### 9.3 Other Species

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

### 9.4 Sensitive Sites

A review of the block design and landscape of the FHP was completed by professional archaeologists. Any sites identified as being of high historical significance (historical resource sites) have been removed from the harvest design.

Upon completion of cutblock and road layout, a second review of the harvest blocks, and temporary roads is completed to identify potential conflicts, and to determine if any further changes are required to the Planning Unit.

There were no signs of rare plants, including signs of terrestrial lichen found within the Planning Unit.

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

### 9.5 Forest Health

During the field verification, a team evaluated the current state of the forest health in the FHP area, as outlined in Section 10.1 of the OGRs.

If any sites are identified post submission, Alberta – Pacific will take the appropriate action to protect these sites as per Section 10.1.2 of the OGRs.

## **10.0 SHS Information / Variance Summary**

Variances from the Spatial Harvest Sequence (SHS) within the Planning Unit boundary are shown in Appendix 3 - *Spatial Harvest Sequence Summary Table*.

## **11.0 OGR Deviations**

Table 8: Road Percent Deviations Table



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Road deviations which contain blocks that are greater than 7 hectares, with potentially more than 5% road disturbance.

<i>Source ID</i>	<b>Opening Number</b>	<b>Road Percentage</b>	<b>Reasoning</b>
FC08201507191	5010820719	6.5	MAIN
FC08201516311	5010821631	6.6	MAIN
FC08201531481	5010823148	5.7	MAIN
FC08202535611	5020823561	6.2	MAIN
FC08202536521	5020823652	5.9	MAIN
FC08301506251	5010830625	6.1	MAIN
FC08302501371	5020830137	5.6	ACCESS
FC08302501871	5020830187	5.7	MAIN
NC08101532784	5010813278	5.6	MAIN
NC08202522184	5020822218	7.7	MAIN

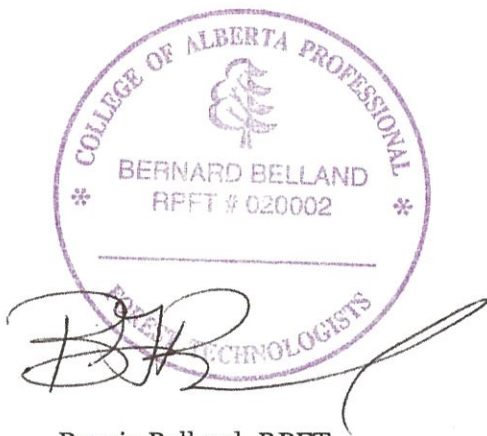
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## 12.0 Validation by Registered Forest Practitioner

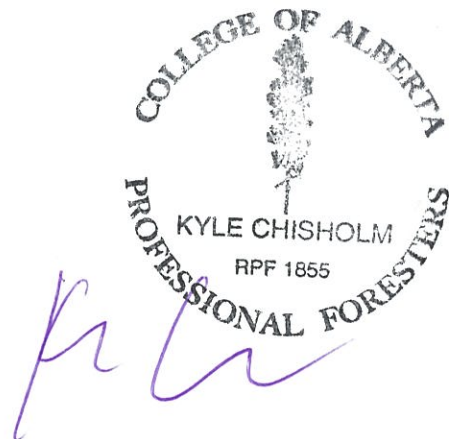
This plan is being prepared and submitted on behalf of Vanderwell Contractors (1971) Ltd. and Alberta-Pacific Forest Industries Inc.

ALBERTA-PACIFIC FOREST INDUSTRIES INC.

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## **Appendices**

**Appendix 1- FHP Block Map**

**Appendix 2- FHP Overview Map**

**Appendix 3- Vanderwell Spatial Harevest Sequence Summary Table**

**Appendix 4- Al-Pac Spatial Harevest Sequence Summary Table**

**Appendix 5- Spatial Harvest Sequence Summary Map**