

2017 – 2022 Operating Plan for the Prince Albert FMA

December 1, 2016

Prepared for:

*Saskatchewan Ministry of Environment
Forest Service Branch
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This plan is prepared in accordance with the requirements of the Environmental Code, the Forest Management Agreement, and the Harvest Volume Schedule and associated utilization standards.

Ian MacIver, R.P.F.
General Manager
Sakâw Askiy Management Inc.



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December 1, 2016

Saskatchewan Ministry of Environment
Forest Service Branch
201 - 1061 Central Avenue
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Attention: Mr. Aaron Kuchirka
Executive Director

Dear Mr. Kuchirka:

Re: 2017 - 2022 Operating Plan for the Prince Albert Forest Management Agreement

Please find attached Sakâw Askiy ("Sakâw") 2017–2022 Operating Plan for the period commencing April 1, 2017.

As you are aware, this submission is the 7th since the creation of Sakâw. Shareholder capacity has increased, consequently so has the quality of our plan. This submission of the Operating Plan represents another benchmark in support of our continuous improvement goal.

Sakâw considers this plan to be complete, meeting the standards outlined in the Forest Operating Plan Standard; consequently Sakâw expects the Forest Service to immediately commence the Duty to Consult process, complete the required plan review and provide an approval on or before April 1, 2017.

If you have any questions please don't hesitate to contact me or any of our Planning Area Facilitators.

Sincerely,

Ian MacIver, R.P.F.
General Manager
Sakâw Askiy Management Inc.

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Glossary

AHPP	Aquatic Habitat Protection Permit	SGR	Silviculture Ground Rules
FMP	Forest Management Plan	USA	Unanimous Shareholders' Agreement
FMA	Forest Management Agreement		
GPS	Global Positioning System (Satellite)	AC Forestry	Agency Chiefs Forestry Ltd.
Ha	Hectare (measure of area)	CFP	Carrier Forest Products Ltd.
HCB	Heritage Conservation Branch	Edgewood	Edgewood Forest Products Inc.
HVS	Harvest Volume Schedule	L & M	L & M Wood Products LP
IBR	Improved Bush Road	MLBV	Montreal Lake Business Ventures LP
HIS	Integrated Harvest Schedule	MLMP	Meadow Lake Mechanical Pulp Inc.
IWR	Improved Winter Road	MLOSB	Meadow Lake OSB LP (Tolko)
m	Metre (measure of distance)	NorSask	NorSask LP
m ³	Cubic metre (measure of volume)		
OP	Operating Plan	BP	Balsam Poplar
OSB	Oriented Stand Board	BS	Black Spruce
OZA	Operating Zone Agreement	JP	Jack Pine
PA	Prince Albert	TA	Trembling Aspen
PAPI	Prince Albert Pulp Incorporated	TL	Tamarack
PHSP	Pre-Harvest Site Prescription	WS	White Spruce
RMA	Riparian Management Area		
RPF	Registered Professional Forester		

1 Introduction

This Operating Plan has been prepared in accordance with the Forest Operating Plan Chapter of the Saskatchewan Environmental Code which came into force on January 5, 2015, the Amended and Restated Prince Albert FMA, and the current / proposed Harvest Volume Schedule (HVS) for the FMA. This operating plan contemplates the content of the 2017-2037 FMP that is expected to be completed in the spring / summer of 2017 and then be approved retroactively to April 1, 2017.

The plan is being submitted by Sakâw Askiy Management Inc. (Sakâw), as the PA FMA Licensee, on behalf of its Shareholders to gain approval for consumptive and non-consumptive activities on the FMA landbase. These activities include, but are not limited to, harvesting, road construction, road maintenance / reclamation, planting, scarification, and surveying. The operating plan covers the period April 1, 2017 to March 31, 2022. Plan maps and documents are available on the website www.sakaw.ca.

Each of Sakâw's Shareholders (Allocation Holders) contributed to the development of this plan following a process outlined in Sakâw's Operating Zone Agreement. The FMA is partitioned into a set of hardwood and softwood operating zones which have been used to define planning areas. A planning area is a specific geographic area within the FMA that represents the unique combination of overlapping Hardwood Operating Zones and Softwood Operating Zones.

For each Planning Area, Allocation Holders prepared an operating plan which is then provided to the "Planning Area Facilitator" who is then responsible for turning these plans into a fully integrated operating plan for that Planning Area and then submitted to the General Manager for incorporation into the Sakâw Operating Plan. Planning Area Facilitators are currently Michelle Young, R.P.F. (MLOSB), Ed Kwiatkowski, R.P.F. (Carrier), and Doug Braybrook, R.P.F. (Edgewood). See Figure 1 below for the planning areas managed by each facilitator.

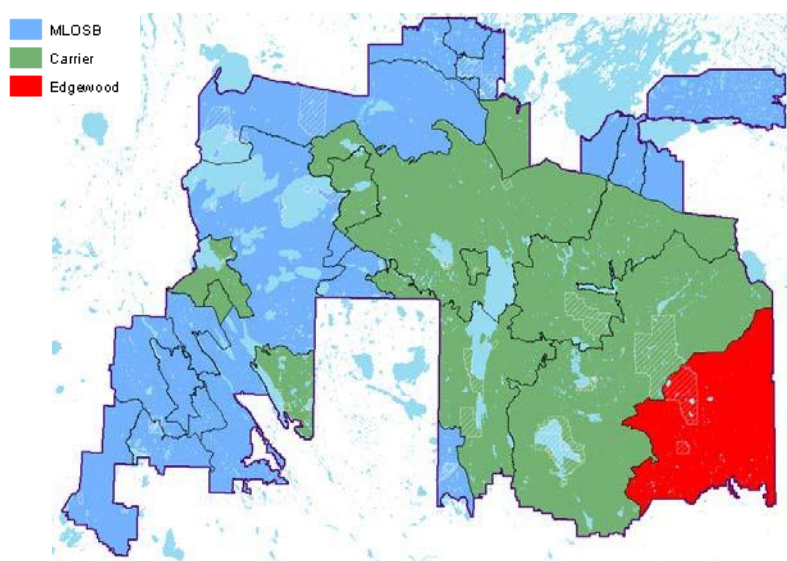


Figure 1 - Planning Area Facilitator areas in the PA FMA

The Sakâw 2017-2022 Operating Plan has been prepared in accordance with the Forest Operating Plan Chapter of the Saskatchewan Environmental Code, the Amended and Restated Prince Albert FMA, the Side Agreement. For further clarity, Sakâw shareholders will develop an integrated harvest schedule to rationalize and utilize, to the extent possible, incidental species while at the same time minimizing delivered wood cost.

Sakâw is requesting approval for all Year 1 (2017-18) blocks for a period of two consecutive years (April 1, 2017 through March 31, 2019). Sakâw trusts that upon conclusion of this plan approval process and with continuous and ongoing stakeholder engagement, Year 1 approvals confirmed for 2017-18 will roll to notification ahead of operations in 2018-19. It is contemplated that a full OP will be submitted for 2018-23 on December 1, 2017.

Summary of Variances from Forest Operating Plan Standard

1. More than 2 times volume being planned. Extra volume included contained within blocks being harvested during the 2016-17 operating area. Prior to March 31, 2017, Sakâw will update the tables to ensure 2x HVS requested.
2. Utilization - Some blocks may have more than 3% retention related to lack of market for all products.

2 Public Engagement and Aboriginal Information Sharing

The FMA area supports the activities of many forest users and these activities are important contributors to the economic and social sustainability of at least 30 communities in and around the FMA. Year-round residents of these communities benefit from the income generated by timber production, special forest products gathering, trapping, outfitting, commercial fishing, wild rice production, and tourism. The forest is also an important source of recreation, food, and cultural identity through the traditional pursuits of hunting, fishing and gathering. The local populations, as well as visitors from other parts of the province, participate in numerous forms of outdoor recreation including sport hunting, sport fishing, cottage visits, camping, picnicking, swimming, wildlife viewing, and snowmobiling. Nearly all of this activity is concentrated on road-accessible portions of the FMA area.

Ongoing one-on-one engagement between Sakâw Shareholder planners and stakeholders is the preferred method of gaining stakeholder input. This engagement plays an important role in the development of Operating Plans.

Stakeholder Engagement is a continuous process. Public engagement, communication and information sharing mechanisms are continually being modified and adjusted to meet stakeholder needs, expectations, and legal requirements. The underlying goal is to reach interested stakeholders and the broader public in whatever manner is most effective.

It is the duty of the Government of Saskatchewan to consult, and if appropriate accommodate, First Nation or Metis if the actions contemplated by the Government could adversely affect Aboriginal rights. Consultation must take place before any legislation, policy, program or other activity that could adversely affect Treaty or Aboriginal rights is developed or implemented.

Sakâw also has an obligation to make a specific effort to engage, communicate and share information with First Nation and Metis communities, and if necessary, to accommodate Aboriginal input and concerns in the development of the Operating Plan. One-on-one meetings with trappers, Chief and Council, and band members continue to be effective mechanisms. As well, the Province of Saskatchewan provides an opportunity for input through their Duty to Consult process.

Stakeholder engagement for the purpose of implementing this Operating Plan is complete. If new information becomes available during the life of the plan, which will further inform the plan or Shareholder operational activities, Sakâw, through its Shareholders, will request an amendment to the plan if required.

In preparing for the 2017-2022 Operating Plan, Shareholders have met on a regular basis and documented feedback received from rural and urban municipalities, First Nations and Metis communities, trappers, outfitters, and other stakeholders, including Third-parties. In September and October, Sakâw contacted all stakeholders identified in our stakeholder database by registered letter, advising them that our plan, as informed via our stakeholder engagement process, was available for input and comment. From October 17 to 21, 2016 Sakâw and its Shareholders met in an open house meeting format with stakeholders as illustrated in Table 1.

Table 1 – Sakâw Stakeholder Information Sessions

Date	Community:
October 17	<ul style="list-style-type: none"> • Dore/Sled Lake • Big River
October 18	<ul style="list-style-type: none"> • Emma / Anglin Christopher Lake(s) • Little Red River (La Ronge Band) • Prince Albert
October 19	<ul style="list-style-type: none"> • Candle / White Swan Lake(s)
October 20	<ul style="list-style-type: none"> • Weyakwin
October 21	<ul style="list-style-type: none"> • Montreal Lake

These public information sessions were broadly advertised across northwest Saskatchewan for two consecutive weeks prior to the scheduled meetings. All stakeholder communications have emphasized the availability of information via our website (www.sakaw.ca) and Sakâw kept stakeholders informed by uploading concurrently all new information related to our business and plans. All of the operating plan maps are available for viewing on the website (1:50,000 scale).

At the invitation of the Conservation Officer Service, Shareholder Planners accepted a number of invitations and participated in one Annual Trappers' Meeting (Table 2).

Table 2 – Sakâw Attendance at Trapper Meetings

Date	Group and Location
November 7	P7 – Weyakwin

It should be noted that the concept of Events was highlighted to stakeholders during the Open House sessions.

Results of the stakeholder engagement processes and any commitments made have been documented in a database outlining issues, concerns and requests as well as a record of follow-up or other response has been tracked by stakeholder. This information will be provided to the Ministry of Environment, Area Forester upon request.

In summary, we consider the Operating Plan to be a living document informed on a continuous basis through a process of on-going stakeholder engagement using the best available information sources.

3 Proposed Forest Operations

3.1 General

The following sections apply broadly to all harvesting proposed under this plan. A complete list of proposed blocks and their attributes can be found in Appendix A and a list of proposed stream crossings can be found in Appendix B.

3.1.1 Harvesting Methods

Mechanical harvesting systems are used to process all of the wood harvested on the FMA. Typically, a mechanical system consists of a tracked feller-buncher used to cut standing trees and lay them in orderly piles called drags. A grapple-skidder collects the drags of wood left distributed throughout the cut block by the feller-buncher, and skids them to roadside, or into rows within the cut block to facilitate use of a processor to remove tree branches and tops. The processor operator sorts the processed tree-length logs into three basic products: sawlogs, softwood pulp and hardwood.

3.1.2 Ribbon Colour Scheme / Boundary Tolerances

Where practical, logical type boundaries, roads, muskegs, etc. will be used as cutting boundaries; otherwise boundary lines will be marked with flagging tape. Several Shareholders have contractors with GPS equipped bunchers for which no physical boundaries and road centerlines are ribboned.

The following table lists standardized flagging tape colours that will be used by Shareholders during the operating year to mark boundaries or lines for proposed forestry activities where GPS is not used.

Table 3 - Standardized Flagging Tape Colours

Ribbon Colours	Use
Pink "Cut block Boundary"	For cut block boundary locations and sensitive sites where harvesting will not occur
Orange "Road Line" or "Road Centerline"	For road location
Day-glo Green "Machine Free Zone" (Carrier uses Yellow "Machine Free Zone")	For areas where equipment is not permitted to travel
Yellow "Special Management Zone"	For areas with special management conditions (i.e. riparian management no harvest zones).
Yellow	Planting Boundaries

When available Sakâw Shareholder contractors will utilize on-board GPS technology. The objective is to prevent stranding merchantable timber, consequently Sakâw requests that the Forest Service reinstate the previous agreement; where there is no clear distinction between stand boundaries or mature vs immature/non-merchantable (not correctly rectified on maps), on-the-ground variations in block boundaries relative to the plan map may vary by up to 100 metres. In any event, block areas will not be altered as a result of boundary changes by more than 10% or 5 hectares; whichever, is less (as per the FMA Standards and Guidelines). If a stand was missed in the OP proposal, an amendment will be submitted to the Area Forester for consideration.

3.1.3 Utilization Standards

This plan assumes that the Prince Albert Pulp Mill will not be operating. Utilization standards outlined in the 2017 - 2037 Forest Management Plan will be followed in this plan.

3.2 Forest Harvesting

3.2.1 Cut Control

The harvest allocations and actual harvested volumes to date by shareholder in the current cut control period are shown below (current period started in 2017 -16). This table assumes that the current HVS volumes will remain unchanged in the 2017-2037 FMP. Reconciled volume for 2015-16 Period is not available at this time.

Table 4 - HVS Allocations and Harvest Levels for Current 5 Year Cut Control Period

Shareholders	Allocation (m ³ /yr)	2015 -16 m ³	2016-17 m ³	2017-18 m ³	2018-19 m ³	2019-20 m ³	Total m ³	Remaining m ³
Hardwood								
A.C. Forestry	200,000						0	1,000,000
MLBV	40,000						0	200,000
MLMP	95,000						0	475,000
MLOSB (Tolko)	600,000						0	3,000,000
Total Hardwood	935,000						0	4,675,000
Softwood								
A.C. Forestry	200,000						0	1,000,000
Carrier	375,000						0	1,875,000
Edgewood	75,000						0	375,000
L&M	75,000						0	375,000
MLBV	200,000						0	1,000,000
NorSask	175,000						0	875,000
Total Softwood	1,100,000						0	5,500,000

3.2.2 Proposed Year 1 Harvest Volumes / Attributes

The plan includes the following Year 1 volumes and represents 3.2 years of HVS across all shareholders.

Table 5 - Shareholder Allocations and Proposed Harvest Volumes / Years of HVS

Shareholders	Allocation (m ³ /yr)	Year 1 Proposed m ³	Years of HVS Proposed
Hardwood			
A.C. Forestry	200,000	623,664	3.1
MLBV	40,000	130,245	3.3
MLMP	95,000	218,603	2.3
MLOSB	600,000	2,075,124	3.5
Softwood			
A.C. Forestry	200,000	546,778	2.7
Carrier	375,000	1,351,793	3.6
Edgewood	75,000	202,117	2.7
L&M	75,000	247,344	3.3
MLBV	200,000	587,406	2.9
NorSask	175,000	534,781	3.1
Total	2,035,000	6,517,854	3.2

Contingency volume (2-3x HVS) is included in this submission of the plan to recognize that some volume herein will still be logged in 2016-2017 and operational flexibility is needed to address stakeholder issues, abnormal weather, fires, plant closures, changing mill requirements / market conditions, and the uncertainty in volumes (typing inaccuracy, SWD in blowdown areas, change in block boundaries, retention volumes, lack of pulp mill, etc). Despite this additional volume being included in the plan, harvesting will not exceed the HVS over a five year cut control cycle so there is no risk of unsustainable harvest. Prior to March 31, 2017 Sakâw will update the tables to properly reflect a 2x HVS approval request.

3.2.3 Proposed Events

The boreal forest is an ecosystem driven by, and dependent on periodic disturbance. Wildlife species have adapted to, and are therefore dependent on forest structure, and an age class distribution created by these periodic disturbances. With fire suppression reducing the amount of natural disturbance and renewal of the forest, timber harvesting, and timber harvest planning designed in a way to emulate natural disturbance patterns, is an appropriate means of replacing that disturbance to create and manage for a healthy forest ecosystem. Sakâw has previously implemented a range of harvest Event sizes as concepts in the 2017-2037 FMP.

This operating plan does include Events (as defined in the Natural Forest Patterns standard) and is seeking approval. Sakâw is advocating for the Forest Service to clearly articulate with respect to planning, evaluation and approval of Events for the 2018-23 Operating Plan

3.2.4 Silviculture Systems and Stand Level Retention

The primary silviculture system used will be modified clear-cut with an average of 3% (range of 3-15% by block) of the merchantable volume retained as in-block retention (either islands or clumps). Additionally, non-merchantable trees in harvested blocks will also be retained.

Sakâw requests an exemption to the in-block retention standard for any mistletoe control blocks approved in the plan.

Incidental timber will only be retained above required levels, where the shareholder with the rights to the incidental timber has indicated that they do not want the volume, no other market exists, and the percent retention has been documented in the Integrated Harvest Schedule (IHS) being maintained by Sakâw.

3.2.6 Riparian Area Harvesting

Riparian areas harvested under this plan will be in accordance with the approved Riparian Areas Management Harvesting Standards for the Prince Albert FMA. All requests for exemptions to approved riparian area harvesting standards will be made to the Saskatchewan Environment, Area Forester for consideration.

Sakâw requests an exemption to the Green Tree Retention standard and the “no travel zone” for RMAs in any mistletoe control blocks approved in the plan. All other portions of the RMA standard will apply. Retention in RMAs will be composed of species not susceptible to mistletoe. Live jack pine will be dealt with as per the PA FMA Standards.

3.3 Roads and Crossings

The Shareholders are responsible for the construction and maintenance of Improved Bush Roads (IBRs) and all other lower class roads used to access harvest operations. Roads will be constructed and maintained as per the Prince Albert FMA Roads Standards and Guidelines.

Saskatchewan Environment has set standards for both temporary and permanent road closures in order to protect the fish and wildlife that depend on the habitat affected by roads. Roads no longer needed for forest management purposes are to be reclaimed and returned to productive status. Roads subject to temporary closures will have gates or berms installed as per the FMA Standards.

Sakâw and its Shareholders request approval to access any closed roads located within the FMA area for the purpose of conducting approved forest management activities. Once forest management activities are completed, roads will be closed in accordance with the approved PA FMA Standards and Guidelines.

3.3.1 Proposed New Road Development

See area write-ups for details on road development and tables below for summaries.

Table 6 - Proposed Road Construction by Road Class for Year 1 Blocks

Row Labels	Sum of Road Length (km)
2017	2824.4
Class 1	33.7
Class 2	108.9
Class 3	1136.7
Class 4	1545.2
Grand Total	2824.4

Table 7 - Length for RoW Cutting and Road Construction for Class 1 and Class 2 Roads

Sum of Road Length (km)				
Operating Area	Description	Road Cl	Road Name	Total
0805	Timber Bay East	Class 2	Birch Lake IBR	10.4
2217	McRobb Lake	Class 2	Cougar IBR	4.6
2223	Otter Creek	Class 1	McRobb Lake IBR	7.0
		Class 2	Otter Creek IBR	6.5
2227	Long Whitefish Lake	Class 2	Cougar IBR	5.8
2336	Lowther Lake	Class 2	Lowther East IBR	9.4
			Lowther Lake IBR	16.0
2517	Swan Lakes	Class 2	Swan Lake IBR	7.8
2604	Proudfoot Creek	Class 2	Proudfoot Creek IBR	9.2
2607	Burness	Class 1	West Chitek IBR	9.6
2708	Sulby	Class 1	West Chitek IBR	17.2
		Class 2	Moose Meadow IBR	7.7
2709	Chitek West	Class 2	Moose Meadow IBR	2.7
2804	Spruce Point	Class 2	Breland IWR	3.8
			Spruce Point IWR	17.8
2805	Breland Lake	Class 2	Breland IWR	5.9
2807	Bud Lake	Class 2	Breland IWR	1.3
Grand Total				142.6

3.3.2 Stream Crossings

Stream crossings will be constructed in compliance with the FMA Standards and Guidelines and the requirements of applicable provincial and federal legislation. Crossings proposed in this Operating Plan are listed by geographic/administrative area in Appendix B. Sakâw requests that blanket Aquatic Habitat Protection permits be issued to cover installation of crossings and maintenance of crossings.

Seed mixes used for the purpose of stabilizing soils associated with stream crossing reclamation will comply with the “Native Species Recommended for Site Restoration within the Mid-Boreal Upland, Mid-Boreal Lowland and Boreal Transition EcoRegions of Saskatchewan” (Adam L. Kosowan and Jim R. Smith; January, 2004).

3.3.3 Road Deactivation

The Clarke Tower IBR is denoted in the Operating Plan as a Year 1 road deactivation. Sakâw intends to voluntarily remove five culverts; however no timeline has been established for this decommissioning.

3.3.4 Road Reclamation

Road reclamation will be carried out on all classes of road as required by the PA FMA Standards and Guidelines. In-block roads will be reclaimed within two years of harvest completion.

3.4 Temporary Work Camps

As has been traditional practice, Sakâw requests a blanket Temporary Work Camp Permit to cover all forestry activities carried out on the FMA during the 2017-2018 operating year. Camp locations and the responsible Shareholder will be provided on the weekly Sakâw Camp Location Report.

As well, Sakâw requests that, as in previous years, the TWCP waive section 6.2.2.1 of the “Conditions for the Establishment and Operation of Temporary Work Camps.”

3.5 Heritage Resource Surveys

Maps and operating information, including pre-harvest silviculture prescriptions, will be provided to the Heritage Conservation Branch (HCB) of the Department of Parks, Culture and Sport, for all areas included in Years 1 and 2 of the 2017 - 2022 operating plan. Based on location, topography, known heritage resource information, and professional judgment, HCB screens all proposed cut blocks and roads for heritage resource potential. Each block is rated for heritage site potential. The Licensee is required to contract a professional archaeologist to carry out field surveys on high potential blocks under permit from the province. The Licensee is notified of significant sites found during the field assessment so that subsequent forestry activities can be modified or moved so as not to disturb the sites.

3.6 Visually Sensitive Areas

Some blocks proposed in the operating plan have been identified as falling within visually sensitive areas (VSA's). The specific blocks adjacent or within the VSA's have harvest plans developed that take into consideration visual quality and, if applicable, local stakeholder group concerns.

Sakâw requests that an exemption be given with respect to the current approved VSA standard. VSA blocks will have a harvest plan described in the Area Write-Up.

3.7 Third-Party Operators

In order to effectively coordinate Third-party Operations, Sakâw has allocated the entire Third-party Allocation on a proportional basis into the 14 discrete Planning areas.

Sakâw has included known Third-party blocks on the plan maps but no blocks are being submitted for approval on behalf of Third-party operators.

4 Proposed Renewal Activities (2017 – 2018)

4.1 Silviculture Strategies

The 20-Year Forest Management Plan identifies the silvicultural strategies needed to accomplish the overall strategy of ecosystem-based forest management and this silviculture operating plan is aligned with those principles and strategies.

Maintaining the overall species balance is an important feature of the coarse filter approach to ecosystem-based forest management. Typically, this balance is achieved by returning harvested areas to the tree species associations that existed on the site prior to harvest. Sakâw intends to follow this practice. To accomplish the above mentioned objectives and strategies, the forest renewal methods utilized will align with the Silviculture Ground Rules (SGR) approved in the FMP.

The goal is to regenerate all Shareholder harvested areas within two growing seasons of harvest. Natural regeneration begins immediately after harvesting. Prompt reforestation is especially important for successful renewal of areas requiring natural-assisted regeneration or planting. Early regeneration enables young seedlings to compete more effectively for light and nutrients with other pioneer vegetation.

4.1.1 Pre-Harvest Site Prescriptions

Pre-harvest site prescriptions for each block within an operating area are documented in the information management system. Pre-harvest site prescriptions (PHSPs) outline a renewal objective for each harvest block and the regeneration method and techniques to be used to reach this objective. Specifically, they identify the proposed harvest system, season of harvest and recommended harvesting equipment, the potential for rutting and compaction if the block is harvested on unfrozen ground, proposed slash abatement and reforestation techniques, predicted forest cover type at rotation, and planting species and density where applicable. A description of special methods used to address recreational, cultural/traditional, and stakeholder concerns and prescriptions to address wildlife concerns within and adjacent to proposed harvest blocks is provided in the area write-up.

4.1.2 Pesticides / Herbicides

The Sakâw Shareholders are committed to the long-term sustainable use of the forest resource. Renewal activities are planned in the most cost effective manner possible while meeting the long-term resource sustainability. To date, the Sakâw Shareholders have been able to renew the forested landbase without the use of chemical vegetation management treatments (herbicide) and no herbicide treatments are planned within the 2017 – 2018 operating year.

The Ministry of Environment, Forest Service Branch is responsible for insect pest management on the FMA. Sakâw is unaware of any insecticide applications planned by the ministry on the PA FMA in the 2017 – 2018 operating year.

4.1.3 Regeneration Assessments

Sakâw and its Shareholders are obligated to ensure that all areas harvested in the FMA meet renewal standards – including legacy harvesting identified in the FMA Assignment and Assumptions Agreement. The following harvested blocks will have silviculture assessments conducted in accordance with the Saskatchewan Regeneration Survey Manual or approved alternative means. Establishment Surveys have been completed on Legacy Silviculture Blocks, FTG surveys will begin in 2018.

Table 8 - Blocks Scheduled for Establishment Surveys – Sakâw Shareholders

Harvest Year	Block Number	OP Area Name	Harvest Year	Hectares	Treatment	Shareholder	Comments
2010/2011	06_11_014	Gade Lakes	2010/2011	8.37	LFN	EDGEWOOD	ThirdParty
2010/2011	06_12_008	Choiceland Trail	2010/2011	5.37	LFN	EDGEWOOD	ThirdParty
2010/2011	06_12_009	Choiceland Trail	2010/2011	5.89	LFN	EDGEWOOD	ThirdParty
2010/2011	06_12_011	Choiceland Trail	2010/2011	9.99	LFN	EDGEWOOD	ThirdParty
2010/2011	21_14_100	Appleby Lake	2010/2011	0.29	LFN	ACFORESTRY	ThirdParty
2010/2011	22_00_028	Vimy East	2010/2011	314.98	LFN	ACFORESTRY	
2010/2011	22_02_018	Vimy Tower	2010/2011	47.81	LFN	ACFORESTRY	
2010/2011	22_02_023	Vimy Tower	2010/2011	23.63	LFN	ACFORESTRY	
2010/2011	22_02_025	Vimy Tower	2010/2011	29.01	LFN	ACFORESTRY	
2010/2011	23_01_035	Myrtle	2010/2011	61.53	LFN	MLOSB	
2010/2011	23_01_037	Myrtle	2010/2011	254.92	LFN	ACFORESTRY	
2010/2011	23_02_065	Roberts Lake	2010/2011	62.44	PLANT/LFN	NORSASK	
2010/2011	23_02_069	Roberts Lake	2010/2011	69.54	PLANT/LFN	NORSASK	
2010/2011	23_02_076	Roberts Lake	2010/2011	262.55	PLANT/LFN	NORSASK	
2010/2011	23_02_077	Roberts Lake	2010/2011	141.95	PLANT/LFN	NORSASK	
2010/2011	23_02_078	Roberts Lake	2010/2011	4.67	LFN	MLOSB	ROW
2010/2011	23_02_082	Roberts Lake	2010/2011	6.2	LFN	MLOSB	ROW
2010/2011	23_07_031	Koho	2010/2011	70.26	LFN	ACFORESTRY	
2010/2011	23_07_032	Koho	2010/2011	68.05	LFN	ACFORESTRY	
2010/2011	23_07_035	Koho	2010/2011	111.02	LFN	ACFORESTRY	
2010/2011	23_07_041	Koho	2010/2011	103.18	LFN	ACFORESTRY	
2010/2011	23_07_065	Koho	2010/2011	34.2	LFN	ACFORESTRY	
2010/2011	23_15_014	Madison North	2010/2011	22.42	LFN	MLOSB	
2010/2011	23_15_019	Madison North	2010/2011	80.98	LFN	MLOSB	
2010/2011	23_15_022	Madison North	2010/2011	38.75	LFN	MLOSB	
2010/2011	23_15_024	Madison North	2010/2011	17.48	LFN	MLOSB	
2010/2011	23_31_008	Tea Creek	2010/2011	317.05	PLANT/LFN	ACFORESTRY	
2010/2011	23_31_019	Tea Creek	2010/2011	154.72	LFN	MLOSB	
2010/2011	23_35_001	Hunter Lake	2010/2011	43.89	LFN	ACFORESTRY	
2010/2011	23_37_004	Morris Creek West	2010/2011	133.32	LFN	MLOSB	
2010/2011	24_00_016	Central Camp	2010/2011	257.32	PLANT	ACFORESTRY	
2010/2011	24_00_024	Central Camp	2010/2011	4.71	LFN	ACFORESTRY	
2010/2011	24_11_017	Appleby Bay	2010/2011	26.74	LFN	MLMP	
2010/2011	24_11_018	Appleby Bay	2010/2011	17.45	LFN	MLMP	
2010/2011	24_21_001	Pace Creek	2010/2011	80.35	LFN	MLMP	
2010/2011	25_09_008	Hurtean	2010/2011	72.29	PLANT	CLL	
2010/2011	25_09_026	Hurtean	2010/2011	13.34	PLANT/LFN	MLBV	
2010/2011	25_09_027	Hurtean	2010/2011	53.26	PLANT/LFN	MLBV	
2010/2011	25_09_106	Hurtean	2010/2011	14.36	PLANT	CLL	ROW
2010/2011	26_01_015	Junor	2010/2011	50.93	LFN	MLMP	
2010/2011	26_01_019	Junor	2010/2011	111.8	LFN	MLMP	
2010/2011	26_01_022	Junor	2010/2011	5.19	LFN	LM	ThirdParty
2010/2011	26_04_004	Proudfoot Creek	2010/2011	7.14	LFN	LM	ThirdParty
2010/2011	26_05_021	Roy Creek	2010/2011	259.79	LFN	MLOSB	
2010/2011	26_05_022	Roy Creek	2010/2011	16.81	LFN	MLOSB	
2010/2011	26_05_035	Roy Creek	2010/2011	124.15	LFN	MLOSB	
2010/2011	26_05_036	Roy Creek	2010/2011	240.64	LFN	MLOSB	
2010/2011	26_06_001	Barnes Lake	2010/2011	282.14	LFN	MLOSB	
2010/2011	26_06_002	Barnes Lake	2010/2011	145.3	LFN	MLMP	
2010/2011	26_06_008	Barnes Lake	2010/2011	18.97	LFN	MLOSB	
2010/2011	27_08_016	Sulby	2010/2011	27.11	LFN	MLOSB	
2010/2011	27_08_027	Sulby	2010/2011	46.14	LFN	MLOSB	
Total				4380.39			

Table 9 - Blocks Scheduled for Regeneration Ground Check Surveys (legacy blocks)

BLOCK NUMBER	OPERATING AREA	Harvest Year	STOCKING	HECTARES	COMMENTS
02_01_011	Snowfield Junction	2008/2009	72%	5.3	
04_06_034	Clearsand Creek	2004/2005		3.48	Missed Flight
05_05_025	Heritage Lake	2004/2005		3.42	Missed Flight
05_77_009	Clarence East	2000/2001		41.7	NSR Retreatment
06_02_044	Evenden	2003/2004	30%	4.55	
06_02_044	Evenden	2003/2004	20%	6.10	
06_02_044	Eveden	2003/2004	40%	8.03	
06_02_065	Evenden	2004/2005		3.69	Missed Flight
06_02_065	Evenden	2005/2006		8.08	Missed Flight
06_77_027	No Op Area	2005/2006		2.05	Missed Flight
10_77_038	Sandy Bay	2006/2007		2.74	Missed Flight
21_10_003	Revo Lake	2007/2008		73.31	Missed Flight
22_03_031	Mooswuk Lake	2007/2008	75%	26.0	
22_03_031	Mooswuk Lake	2007/2008	75%	2.3	
23_05_003	Jessie Lake	1999/2000		14.5	Missed Flight
24_08_006	Otapanask	2005/2006	72%	10.94	
26_03_018	Idylwild Creek	2008/2009	78%	1.6	
26_03_026	Idylwild Creek	2008/2009	67%	0.2	
Total				218.01	

4.1.4 Third-Party Operators

An FMA commitment requires the regeneration of cutovers harvested by Third-party operators on the FMA area within five years of harvest completion. The techniques used on these areas are similar to those used on Sakâw Shareholder cutovers.

The most common silviculture treatment on Third-party areas has been scarification for natural assisted jack pine regeneration. Third-party jack pine post operators currently account for the largest portion of forest area harvested by Third-parties on the Prince Albert FMA.

5 Forest Protection

5.1 Fire Protection and Suppression

Saskatchewan Ministry of Environment is responsible to provide and maintain an organization of people and equipment for the prevention, detection and suppression of forest fires that originate within or are likely to endanger timber upon the FMA. Each Sakâw Shareholder ensures that their operations are compliant with The Wildfire Act. Sakâw will submit, to the Executive Director, Wildfire Management Branch, a Fire Protection and Suppression Plan by March 31, 2017.

5.2 Insect and Disease Protection

A number of protection strategies will be incorporated into our management planning and harvest considerations to minimize the potential loss of timber from forest insects and disease. Efforts will be made, especially in the case of jack pine mistletoe, to carry out harvesting and silviculture activities in such a way as to reduce the chance of some of the current infestations being re-established in regenerating stands. Monitoring, assessment and protection of catastrophic insect and disease outbreaks is the responsibility of the Province.

For the purpose of mistletoe control in identified mistletoe control blocks, Sakâw is requesting that the in-block retention requirement be waived. Shareholders will attempt to achieve green tree retention targets with species not susceptible to dwarf mistletoe. Sakâw also requests approval to sanitize mistletoe pine adjacent to an approved block as long as the patch does not exceed 5% of the block size or 2 ha whichever is less. Maps of treated areas will be sent to the Area Forester once completed.

For the purpose of mistletoe control in identified mistletoe control blocks, Sakâw is requesting that in-block retention requirements be waived for riparian management areas (RMA's). Shareholders will attempt to achieve retention targets with species not susceptible to dwarf mistletoe. As well, Sakâw is requesting that the 10 metre no travel zone be amended to a 5 metre no travel zone.

6 Commitments

6.1 Activities Reporting

Sakâw commits to providing the following reporting during the implementation of this plan:

- A weekly operations report detailing the responsible shareholders, locations and status of active operations will be consolidated by Sakâw and submitted to the Ministry of Environment, Area Forester.
- A monthly Crossings Report outlining where active work (construction or maintenance) is occurring on crossings.
- A cutover summary report including volumes and areas harvested will be submitted annually by May 31st.

6.2 Self-Inspection and Self Reporting

Section 32(e) of the Forest Resources Management Regulations requires Sakâw to self-inspect landbase activities. Under the terms of the FMA and the Memorandum of Agreement, this activity has been delegated to individual Shareholders.

In support of this, the following procedures will be followed by Sakâw's shareholders:

- Prior to operations beginning, a start-up checklist is completed with the contractor. The pre-work details requirements of how each harvesting block is to be developed.
- A post-work inspection will be completed following completion of each logging area.
- Non-compliances will be reported by e-mail or letter to the Ministry of Environment, Area Forester or designate as soon as practical after they are discovered and verified. The notice will contain the location and the specifics around the non-compliance as well as the Action Plan to be taken to correct the issue if applicable.
- Measures to correct non-compliances will be as per the Shareholder's non-compliance, preventative and corrective action process.

Pre and post work reports will be made available to Forest Officers on request.

6.3 Amendments

Amendments to this OP will be submitted in writing either by e-mail or letter to the Ministry of Environment - Forest Service - Area Forester. These amendments will be assigned a number by the Area Forester processing the request. These requests and subsequent correspondence will be filed in a tracking log. Engagement with those stakeholders potentially affected will normally be done prior to the request being submitted. If this is not the case, the submission will indicate this. Stakeholders affected will be given adequate notification so that they can make appropriate arrangements regarding their interests. This notification may be given through trappers block meetings or individually by telephone, by mail or in person.

6.4 Harvesting Contractors

All harvesting is carried out by independent contractors. Contractors must meet all operational and safety standards within the forest harvesting operation they are responsible for. All contractors must:

- Provide direct supervision of their employees.
- Adhere to each Shareholder's Environmental Policy and Environmental Management System, as applicable.
- Meet the requirements of any applicable Saskatchewan Acts and Regulations.
- Ensure safe working conditions for employees.
- Be familiar with Sakâw's forest management objectives, to ensure harvesting is done in a manner consistent with them.
- Work with the public, stakeholders and other users of the forest who may have leases, cabins, trails or other interests that need protecting within the operating area.
- Ensure that their employees comply with all Forest Regulations and contract provisions.

Appendix A – Proposed Harvest Blocks Volumes and Responsibility Table

See Excel file titled:

Sakaw_Operating_Plan_Proposed_Harvest_Tables_2017_2022-v1.xlsx

- Year 1 Details
- Sum Year 1-Vol-Shareholder
- Year 1 Salvage Burn
- Year 1 Salvage Wind

Appendix B – Proposed Roads and Crossings Table

See Excel files titled:

Sakaw_Operating_Plan_Proposed_Road_Construction_2017_2022-v1.xlsx

- Summary Length Class 1 and 2
- Summary Length by Road Class
- Proposed Roads - Raw Data

Sakaw_Operating_Plan_Proposed_Crossing_Locations_2017_2022-v1.xlsx

- Proposed Crossings 2017-2022

Sakaw_Operating_Plan_Proposed_Road_Access_Control_BERMS_2017_2022-v1.xlsx

- Proposed Berms 2017-2022

Sakaw_Operating_Plan_Proposed_Road_Access_Control_GATES_2017_2022-v1.xlsx

- Proposed Gates 2017-2022

Appendix C – Proposed Renewal Activities Table

See Excel file titled:

Sakaw_Operating_Plan_Scarification_and_Tree_Planting_Plan_2017-v1.xlsx

- Planned Planting Spring 2017
- Planned Scarification 2017
- Outstanding Silv Obligations