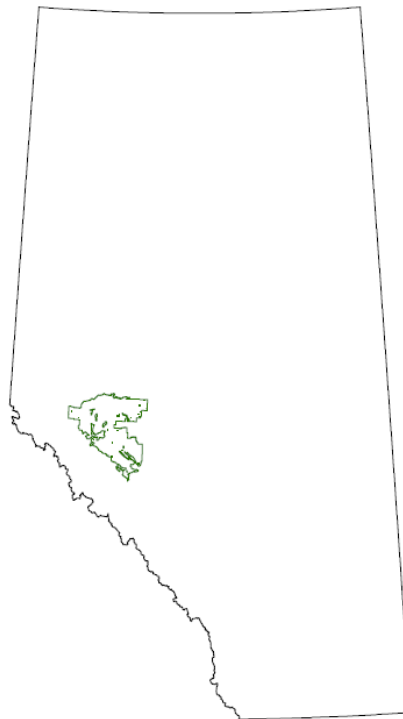


## Forest Management Plan Approval Decision

Forest Management Unit E14  
West Fraser Mills Ltd. (Hinton) 2014

Forest Management Agreement 8800025



**Date:** March 14, 2017

**Annual Allowable Cut**  
**Effective Date:** May 1, 2016

**Approved by:** Original Signed  
Darren Tapp, MBA, MF, RPF  
Executive Director,  
Forest Management Branch

## **Executive Summary**

*The West Fraser Mills Ltd. (Hinton) Forest Management Plan dated October 31, 2014, and revised dated December 23, 2015 and November 17, 2016, is approved subject to the satisfactory completion of the Approval Conditions presented in this document.*

*The Conditions herein are consistent with the terms of the Forest Management Agreement (FMA). Failure by West Fraser Mills Ltd. (Hinton) to fulfill the direction provided in this Approval Decision will place the Company in default of its FMA.*

*The Forest Management Plan has been validated by a Regulated Forestry Professional (RFP). The Department recognizes RFP-validated work as complete, accurate, and prepared with professional due diligence. The Forest Management Plan has been reviewed and approved by Alberta Government RFPs.*

## **Approval Decision Conditions**

<b>Approval Condition</b>	<b>Page</b>	<b>Requirement</b>	<b>Approval Authority</b>	<b>Date</b>
1.1	2	Public Consultation	Forestry Manager, Edson Forest Area	Ongoing
1.2	3	Aboriginal Consultation	Forestry Manager, Edson Forest Area	Ongoing
2.1	3	Riparian Management Strategy	Executive Director, Forest Management Branch	September 29, 2017
3.1	3	Forest Health	Forestry Manager, Edson Forest Area	Ongoing
4.1	4	Spatial Harvest Sequence	Director, Forest Resource Management Forestry Manager, Edson Forest Area	Ongoing
5.1	5	Stand Level Structure Retention	Director, Timber Production Auditing and Revenue Director, Forest Resource Management	September 15, 2017 May 1, 2018
6.1	5	Habitat for Species of Concern	Director, Forest Resource Management Forestry Manager, Edson Forest Area	Ongoing and Upon Caribou Range Plan Approval
7.1	6	Growth and Yield	Director, Forest Resource Management	May 19, 2017 and Ongoing
8.1	6	Access	Director, Forest Resource Management Forestry Manager, Edson Forest Area	Ongoing
9.1	7	Delivered Timber Volume Monitoring and Reporting Program	Director, Timber Production Auditing and Revenue; Forestry Manager, Edson Forest Area	November 1, 2017 and December 31, 2018

<b>Approval Condition</b>	<b>Page</b>	<b>Requirement</b>	<b>Approval Authority</b>	<b>Date</b>
10.1	8	Timber Harvest Planning and Operating Ground Rules	Director, Forest Resource Management	December 15, 2017
11.1	8	Performance Monitoring and Reporting	Director, Forest Resource Management	January 31, 2019 and November 1, 2023
12.1	8	Future Forest Management Plans	Executive Director, Forest Management Branch	May 1, 2026

### **Approved Annual Allowable Cuts**

*The Approved Annual Allowable Cut<sup>1</sup> (AAC) for May 1, 2016 – April 30, 2026 are:*

- *Coniferous AAC: 1,495,800 m<sup>3</sup> per year*
- *Deciduous AAC: 328,600 m<sup>3</sup> per year*

*Refer to Tables 1 and 6 for the Historical Allocations, Tables 2, and 7 for the Approved Annual Allowable Cuts, and Tables 3 and 8 for the Quadrant Allowable Cuts.*

The approved landbase is defined as being ‘single-combined’ or otherwise known as having been ‘dissolved’, there are no separate or distinct primary or secondary AACs.

*The Approved Annual Allowable Cut<sup>2</sup> (AAC) for May 1, 2026 – April 30, 2036 are:*

- *Coniferous AAC: 1,297,100 m<sup>3</sup> per year*
- *Deciduous AAC: 265,700 m<sup>3</sup> per year*

### **Authorization**

The Forest Management Plan for Forest Management Unit E14 dated October 31, 2014, and revised dated December 23, 2015 and November 17, 2016, is approved subject to the Approval Conditions and Annual Allowable Cuts (Tables 2 and 7) presented in this Approval Decision.

This Forest Management Plan replaces the 2010 FMP Amendment; Mountain Pine Beetle Addendum approved August 18, 2010.

<sup>1</sup> The annual allowable cut is determined from Tables 30 and 33 of the Timber Supply Analysis for the West Fraser Mills Ltd. (Hinton) 2014 Forest Management Plan dated November 15, 2016.

<sup>2</sup> The annual allowable cut is determined from the average of Periods 2 through 7 in Tables 30 and 33 of the Timber Supply Analysis for the West Fraser Mills Ltd. (Hinton) 2014 Forest Management Plan dated November 15, 2016.

The AACs are effective beginning May 1, 2016. The AACs are predicated on the company harvesting the species profile in the proportions identified in the spatial harvest sequence, within the variance tolerances, and implementing the silviculture prescriptions and other activities as presented in the plan.

The SHS is effective beginning May 1, 2012. The SHS provided in HWP\_SHS\_V3 is approved with this Approval Decision.

The next FMP is due by May 1, 2026.

## Introduction

This Forest Management Plan (FMP) is prepared to meet Forest Management General Provisions 10 (1) of the West Fraser Mills Ltd. (Hinton) (HWP) Forest Management Agreement (FMA) dated January 14, 2008. Acceptable FMPs are approved by the Executive Director, Forest Management Branch (FMB), Alberta Agriculture and Forestry (department). This Approval Decision presents the rationale and establishes Conditions of Approval for the HWP FMP dated October 31, 2014 and revised dated December 23, 2015 and November 17, 2016.

The Conditions herein are consistent with the terms of the FMA and failure by HWP to fulfill the direction provided in this Approval Decision will place the company in default of its FMA. The Conditions contained herein are non-negotiable.

The FMP has been validated by a Regulated Forestry Professional (RFP). The department recognizes RFP-validated work as complete, accurate, and prepared with professional due diligence. The FMP has been reviewed and approved by government RFPs.

## Forest Management Planning Area

The forest management planning area under consideration is FMA 8800025, allocated to West Fraser Mills Ltd., Hinton office through legislative Order-in-Council (O.C. 565/2007) dated January 14, 2008.

The FMA area is located in west central Alberta; it falls within Upper Foothills, Lower Foothills, Sub-Alpine and Montane natural sub-regions. The HWP FMA area is located within the Upper Athabasca Land-Use Framework planning region. Where strategic land use and integrated resource management plans are approved after an FMP has been approved, Alberta and HWP shall discuss implementation of the strategic land use and integrated resource plan and Alberta may require the FMP to be amended.

## Background

The department approved HWP's Forest Management Plan Mountain Pine Beetle Amendment on August 18, 2010, effective date May 1, 2010. The FMP was prepared according to the *Alberta Forest Management Planning Standard (ver 4.1, 2006; hereafter, FMPS)*. The 2014 FMP replaces the previous amendment and introduces new information used in planning, implementing and monitoring forestry operations on the FMA area.

The publication of this Approval Decision concludes the department's appraisal of the HWP FMP submitted to date.

## Approval Decision Scope

This Approval Decision addresses the HWP FMP dated October 31, 2014, and revised December 23, 2015 and November 17, 2016. It supersedes previous FMPs, timber supply analyses, and their associated

approval conditions. All timber disposition holders within the FMA area shall conduct their activities in accordance with the approved FMP and this Approval Decision and associated conditions.

HWP shall meet the requirements of the FMP Approval Conditions unless the Executive Director, FMB, agrees to alternate requirements in writing.

In this document, **bolded text** identifies specific timelines, requirements, and the department senior manager accountable for the review. Non-bolded text presents the rationale for the condition and specific considerations to be addressed to meet the condition.

In the event of an inconsistency between the FMP, the Approval Decision and existing, new or revised legislation or regulation, the legislation or regulation shall apply.

## **Timber Supply Analysis**

The department approves the HWP proposed tree length annual allowable cuts (AAC) for the 70 year spatial average from Scenario 2 (without implementing HWP Riparian Management Strategy) in Tables 30 and 33 of the Timber Supply Analysis.

## **Forest Management Plan Approval Conditions**

The Approval Conditions direct HWP to complete additional work to enhance the information presented. The department posts approved FMPs on its website to support public access to plans.

HWP remains obligated to make the approved FMP available to the public.

### **1.0 Public and Aboriginal Consultation**

Alberta delegates the responsibility for public and Aboriginal consultation on proposed FMPs to the FMA holder through the FMA Order-in-Council and Alberta's Aboriginal Consultation policies and guidelines.

HWP's First Nations consultation has been deemed adequate and in alignment with Alberta's current policies. HWP engaged in reasonable and ongoing public and stakeholder consultation, and addressed the issues raised to the extent possible given the limited scope of the FMP. HWP is encouraged to maintain its efforts to conduct meaningful public and Aboriginal consultation throughout the FMP implementation.

#### ***Approval Condition 1.1 Public Consultation***

- i. HWP shall keep written documentation of the issues and comments raised by the public during operational plan consultation, as well as responses and actions to address the concerns. This shall be made available to the Government of Alberta upon request.**

### ***Approval Condition 1.2 Aboriginal Consultation***

- i. HWP shall adhere to the provincial policies and guidelines for Aboriginal Consultation.**
- ii. HWP shall document consultation efforts and activities, issues raised, and timber disposition holders' responses. This documentation shall be made available to the Government of Alberta upon request.**

### **2.0 Riparian Management Strategy**

HWP in their FMP proposed an alternative means of managing riparian areas within the defined forest area that is a departure from approved policy. The department recognizes the effort that has gone into the development of the strategy to date. It also recognizes the on-going work that is being undertaken to evaluate not only the strategy but the monitoring protocols. With the understanding that work is not complete and is ongoing, the department has not been able to fully evaluate the monitoring protocol; the utilization of the Natural Disturbance Strategy Appendix 2: Riparian Management Strategy is not approved at this time.

### ***Approval Condition 2.1 Riparian Strategy***

- i. By September 29, 2017 HWP shall submit to the Executive Director, Forest Management Branch all outstanding Riparian Management Strategy obligations for review and appraisal. In the event the condition is not satisfied, or the submission is found unsatisfactory after review, the department shall not consider the proposed strategy further.**

### **3.0 Forest Health**

The mountain pine beetle (MPB) infestation extends into the HWP FMA area. The implementation of this FMP is not intended to control the current MPB outbreak but rather direct harvest to the most susceptible stands to create a forest that is more resistant to such outbreaks by reducing the overall susceptibility of the mature pine forest. HWP's ongoing and timely communication with local department staff is essential to access affected timber. Where direct MPB population control operations are warranted the following condition shall apply.

### ***Approval Condition 3.1 Forest Health***

- i. All companies shall discuss priorities and coordinate efforts for mountain pine beetle control, timber salvage and forest renewal activities as per the Mountain Pine Beetle Level 2 Harvest Priorities and Approval Process Directive 2013-01 with the Forestry Manager, Edson Forest Area.**

## **4.0 Spatial Harvest Sequence**

The spatial (mapped) harvest sequence (SHS) is the most important output of the FMP as it provides the implementation strategy HWP must follow to achieve the forecasted future forest conditions. While dependent on many factors, the future condition is strongly influenced by harvest patterns, intensity and schedules. It presents spatially and temporally how the integration of environmental, economic, and social values will be achieved on the FMA area. Adherence to a properly planned harvest sequence is imperative; it will be monitored by both HWP and the department. The SHS provided in HWP\_SHS\_V3 is approved with this approval decision.

### ***Approval Condition 4.1 Spatial Harvest Sequence***

- i. HWP shall follow the approved (mapped) twenty-year spatial harvest sequence developed to meet this SHS approval condition.**
- ii. HWP may modify the approved SHS by deleting and replacing stands from the contributing landbase provided that:**
  - a. The additions include no more than 20% of the total sequenced area in each compartment per decade.**
  - b. Harvesting does not exceed 100% of the total area within the approved SHS by compartment by decade.**
  - c. HWP shall not have more additions than combined area in deletions and deferrals. Preference shall be given to the second ten-year period for additions.**
- iii. Stands may be added from the non-contributing landbase subject to department approval. Stands with MPB shall follow the Mountain Pine Beetle Level 2 Harvest Priorities and Approval Process Directive 2013-01.**
- iv. HWP shall track the variance according to the approved current Operating Ground Rules that apply to the FMA area.**
- v. Should HWP exceed the thresholds described in (ii), the Forestry Manager, Edson Forest Area, may require the completion of a Compartment Assessment and the Director, Forest Resource Management, may recommend the reduction of the approved AAC to reflect the impact of the variance.**
- vi. The department requires the deviation from the approved SHS to be reported annually as per the Operating Ground Rules reporting requirements. The five-year Stewardship Report shall include an analysis of the deviation from the approved SHS (Approval condition 11.1 iii) and describe the impacts of the deviation on forecasts made in the FMP.**



- vii. **Generally, the department will not request a modification to the approved SHS unless required by a change in legislation, a policy approved by the Minister, or a deviation from acceptable SHS thresholds.**

## **5.0 Stand Level Structure Retention**

Structure Retention is one of two indicators supporting objective 1.1.2.1 in Annex 4 of the FMPS. Structure retention is a stand level indicator that contributes to conserving biological diversity across the landscape. The department is currently finalizing the minimum provincial requirements for retention, amount, distribution and representativeness.

### ***Approval Condition 5.1 Stand Level Structure Retention***

- i. **HWP shall follow the provincial stand level retention standard on structure retention when finalized. HWP operating ground rules shall be updated to reflect this standard.**
- ii. **In the absence of a provincial stand level retention standard, HWP shall follow the stand level structure retention objectives identified in the FMP. HWP shall by May 1, 2018 develop a Structure Retention Strategy for the HWP DFA. The strategy and methodology shall be acceptable to the Director, Forest Resource Management.**
- iii. **By September 15, 2017 HWP shall submit a process that is acceptable to the Director, Timber Production Auditing and Revenue that outlines the monitoring and reporting of the stand level structure retention strategy for all timber disposition holders. The monitoring and reporting process must include:**
  - a. **The timing and frequency of the reporting; and**
  - b. **The method of determining the volume for AAC drain.**

## **6.0 Habitat for Species of Concern**

There are some wildlife species that are dependent on late mature and old seral stages. Reducing the amount from current levels of late mature and old seral stages to extremely low representation on the classified landbase may alter the forest landscape and may need to be addressed in the next FMP.

Ongoing communication with the forest area should address these issues in annual operational planning. HWP is encouraged to enhance its practice of integrated land management.

### ***Approval Condition 6.1 Habitat for Species of Concern***

- i. **HWP shall comply with GOA guidelines, direction, recovery and/or implementation plans regarding sensitive wildlife species, including, but not limited to, trumpeter swans, grizzly bear and Athabasca Rainbow Trout.**

- ii. **Alberta is preparing range plans for woodland caribou. When applicable plans are approved, HWP shall review its FMP with the department to ensure its alignment and compliance with all its requirements.**

## **7.0 Growth and Yield**

A credible and comprehensive Growth and Yield Program gathers key information for use in future timber supply analyses and to monitor current FMP timber growth and yield assumptions.

### ***Approval Condition 7.1 Growth and Yield***

- i. **By May 19, 2017 HWP shall submit a growth and yield program to the Director, Forest Resource Analysis for approval.**
- ii. **HWP shall implement the growth and yield program and meet commitments made in the growth and yield plan. Stewardship reporting (Approval condition 11.1) shall provide an update on the progress of meeting the commitments.**

## **8.0 Access**

The FMA grants the holder the right to access Crown fibre. HWP submitted a definition of temporary roads. The definition is not accepted as it is inconsistent with provincial policy.

### ***Approval Condition 8.1 Access***

- i. **The department agrees in principle with the proposed road corridor plan; however, this does not constitute approval of the formal disposition. Agreement within this approval decision does not meet the consultation requirements of a Departmental Licence of Occupation (DLO) road application process. HWP shall follow the access development process for DLOs led by Alberta Environment and Parks. The specific location, duration and classification of the road shall be followed through the road application process identified at application time.**
- ii. **Roads that are part of a harvest area or that connect harvest areas, and are built, used and reclaimed before expiry of the Annual Operating Plan (AOP) or reclaimed within three years of construction.**
- iii. **Grizzly bear road density thresholds only apply to individual Grizzly Bear Watershed Units (GBWU); these units shall not be aggregated. HWP shall report the trend of road densities by individual GBWU or other meaningful unit within the next Stewardship Report (Approval condition 11.1) and FMP.**

## 9.0 Delivered Timber Volume Monitoring and Reporting Program

Delivered timber volumes must be monitored and reported to allow comparisons between forecasted and harvested volumes. Collection and analysis of this information will be used in conjunction with growth and yield data to adjust future yield forecasts.

The department in its letter of December 17, 2015 to the Alberta Forest Products Association (Appendix 1) has provided guidance with regards to fibre utilization. Alberta's scaling system has been developed to quantify the amount of volume harvested; the system is dependent on the resources being accurately measured and is dependent on all harvested timber crossing an approved scale either at the final processing facility or an approved off-site storage yard. It is becoming increasingly common that cut-to-length processing methods within a harvest area or off-site storage yard are altering the utilization of the harvested timber and leaving merchantable timber volume un-used.

The determination of the annual allowable cut is based on tree length utilization and incorporates an identified reduction for defect as defined by the Alberta Timber Scaling Manual. It is recognized that the HWP submitted solid wood defect study has incorporated additional deductions that fall outside the Alberta Timber Scaling Manual. The department has reviewed the 2.5 % defect reduction against the provincial average and as it closely approximates that average, the department will not require any additional analysis for this plan. Operationally, only cull that meet the requirements of the Alberta Timber Scaling Manual shall be accepted and defect left in blocks as a result of a company log quality program shall be considered waste.

### ***Approval Condition 9.1 Delivered Timber Volume Monitoring and Reporting***

- i. By November 1, 2017 HWP shall develop a program that compares delivered merchantable timber volumes to harvested area yield forecasts. Results shall be reported annually and summarized in the Stewardship Report (Approval condition 11.1). This program must be acceptable to the Director, Timber Production, Auditing and Revenue.**
- ii. By December 31, 2018 HWP shall develop a program that quantifies the percentage of coniferous defect reduction to be applied to the next FMP yield curves to the satisfaction of the Director, Timber Production, Auditing and Revenue and Forestry Manager, Edson Forest Area.**

## 10.0 Timber Harvest Planning and Operating Ground Rules

### ***Approval Condition 10.1 Timber Harvest Planning and Operating Ground Rules***

- i. **By December 15, 2017 HWP and the department shall complete negotiations to update the HWP Timber Harvest Planning and Operating Ground Rules acceptable to the Director, Forest Resource Management.**

## **11.0 Performance Monitoring and Reporting**

Five-year Stewardship Reports monitor the successful implementation of FMPs.

### ***Approval Condition 11.1 Performance Monitoring and Reporting***

- i. **HWP shall prepare five-year Stewardship Reports that documents the operational performance of each timber operator's activities implementing the FMP. Any disposition holders shall cooperate in providing supporting information to HWP. Where deviations from the planned outcomes exist, analyses shall discuss the reasons for the deviations and describe each timber operator's corrective action, taken or proposed.**
- ii. **By January 31, 2019 HWP shall submit a Stewardship Report, current to May 1, 2018 and a second report, to cover the period between May 1, 2018 to May 1, 2023, due by November 1, 2023. These reports shall be acceptable to the Director, Forest Resource Management.**

## **12.0 Future Forest Management Plans**

In accordance with the FMA, HWP shall prepare a subsequent FMP for department review by May 1, 2026, unless otherwise approved by the Minister.

### ***Approval Condition 12.1 Future Forest Management Plans***

- i. **By May 1, 2026 HWP shall submit a new FMP for department review that meets the FMPS unless otherwise approved by the Minister.**

## **Approved Annual Allowable Cuts**

*The Approved Annual Allowable Cut<sup>3</sup> (AAC) for May 1, 2016 – April 30, 2026 are:*

- *Coniferous AAC: 1,495,800 m<sup>3</sup> per year*
- *Deciduous AAC: 328,600 m<sup>3</sup> per year*

Refer to Tables 1 and 6 for the Historical Allocations, Tables 2 and 7 for the Approved AAC and Tables 3 and 8 for the Periodic and Quadrant Authorized Allowable Cuts.

The harvest level is calculated from a single landbase. There are no secondary species AACs.

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<sup>3</sup> The annual allowable cut is determined from Tables 30 and 33 of the Timber Supply Analysis for the West Fraser Mills Ltd. (Hinton) 2014 Forest Management Plan dated November 15, 2016.

*The Approved Annual Allowable Cut<sup>4</sup> (AAC) for May 1, 2026 – April 30, 2036 are:*

- *Coniferous AAC: 1,297,100 m<sup>3</sup> per year*
- *Deciduous AAC: 265,700 m<sup>3</sup> per year*

## **Authorization**

The Forest Management Plan for Forest Management Unit E14 dated October 31, 2014, and revised dated December 23, 2015 and November 17, 2016, is approved subject to the Approval Conditions and Annual Allowable Cuts (Tables 2 and 7) presented in this Approval Decision.

This Forest Management Plan replaces the 2010 FMP Amendment; Mountain Pine Beetle Addendum approved August 18, 2010.

The AACs are effective beginning May 1, 2016. The AACs are predicated on the company harvesting the species profile in the proportions identified in the spatial harvest sequence, within the variance tolerances, and implementing the silviculture prescriptions and other activities as presented in the plan.

The SHS is effective beginning May 1, 2012. The SHS provided in HWP\_SHS\_V3 is approved with this Approval Decision.

The next FMP is due by May 1, 2026.

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<sup>4</sup> The annual allowable cut is determined from the average of Periods 2 through 7 in Tables 30 and 33 of the Timber Supply Analysis for the West Fraser Mills Ltd. (Hinton) 2014 Forest Management Plan dated November 15, 2016.

**Table 1. Historical Coniferous Allocations and Annual Allowable Cuts**

FMU	Company Name	Disposition Number	Landbase Management Type	Source	Cover Group / Species	Total Coniferous AAC (m <sup>3</sup> ) 15+ /11/15 cm
E14	West Fraser Mills Ltd.	FMA8800025	Single Combined	FMA-Only	C, CD, DC, D	1,758,076
E14		Local Use	Single Combined	FMA-Only	C, CD, DC, D	8,500
E14	FMA AAC Subtotal	FMA8800025	Single Combined	FMA-Only	C, CD, DC, D	1,766,576
<b>FMU E14 Total</b>						<b>1,766,576</b>

Notes:

Effective date: May 1, 2010

## Table 2. Approved Coniferous Allocations and Annual Allowable Cuts

Effective Date: May 1, 2016

FMU	Company Name	Disposition Number	Landbase Management Type	Source	Cover Group / Species	Coniferous AAC (m <sup>3</sup> )	Total Approved AAC (m <sup>3</sup> )
						15+ /11/15 cm	
E14	West Fraser Mills Ltd.	FMA8800025	Single Combined	FMA-Only	C, CD, DC, D	1,487,300	1,487,300
E14		Local Use	Single Combined	FMA-Only	C, CD, DC, D	8,500	8,500
E14	FMA AAC Subtotal	FMA8800025	Single Combined	FMA-Only	C, CD, DC, D	1,495,800	1,495,800
<b>FMU E14 Total</b>						<b>1,495,800</b>	<b>1,495,800</b>

Notes:

Local use is 8,500 m<sup>3</sup> per FMA8800025 Section 8(2).

Forest Management Unit E14 coniferous annual allowable cut as stated in the West Fraser Mills Ltd. (Hinton) 2014 Detailed Forest Management Plan dated November 17, 2016, is reduced to the nearest one hundred from 1,495,851 m<sup>3</sup> to 1,495,800 m<sup>3</sup>.

The approved landbase is defined as being 'single-combined' or otherwise known as having been 'dissolved', there are no separate or distinct primary or secondary AACs.

**Table 3. Coniferous Periodic Allowable and Quadrant Authorized Allowable Cuts**

3.1	E14	West Fraser Mills Ltd.	Disposition: FMA8800025				
		Period Start: 1-May-13	Period End: 30-Apr-18				
		<b>Period Segment Start Date</b>	<b>Period Segment End Date</b>	<b>Years in Period Segment</b>	<b>Approved Harvest Level (m<sup>3</sup>/yr)</b>	<b>Total Coniferous PAC Contribution (m<sup>3</sup>)</b>	<b>Notes</b>
	1	1-May-13	30-Apr-16	3.0000000000	1,766,576	5,299,728.0000	The approved landbase is defined as being 'single-combined' or otherwise known as having been 'dissolved', there are no separate or distinct primary or secondary AACs.
	2	01-May-16	30-Apr-18	2.0000000000	1,495,800	2,991,600.0000	
		Periodic Reconciliation Volume (m <sup>3</sup> )				1,096,450	The primary coniferous reconciliation volume of 2,192,901 m <sup>3</sup> was approved to be utilized over a 10 year period from May 1, 2013 to April 30, 2023. 1,096,450 m <sup>3</sup> will be utilized from May 1, 2013 to April 30, 2018. The remaining 1,096,451 m <sup>3</sup> will be utilized from May 1, 2018 to April 30, 2023.  Unused volume numbers come from the March 26, 2014 "approval in principle" letter issued by Forest Management Branch.
		<b>PAC Total</b>				<b>9,387,778</b>	



**Table 4. West Fraser Mills Ltd. (Hinton) FMA Coniferous Chargeability**

Effective Date: May 1, 2016

FMU	Company Name	Disposition Number	Coniferous Species Used in AAC	Species NOT Chargeable to AAC	Rights to Species NOT Chargeable to AAC	Structure Retention (%)	Structure Retention (%) Accounted for in AAC	Net Landbase Deletions and Deferrals	Net Landbase Deletions and Deferrals: Rights to Timber	Industrial Salvage Chargeability Strategy
E14	West Fraser Mills Ltd.	FMA8800025	All	None	None	1	Structure retention is not accounted for in the AAC.	n/a	n/a	All industrial salvage is AAC chargeable.

**Table 5. West Fraser Mills Ltd. (Hinton) FMA Coniferous Utilization**

Effective Date: May 1, 2016

FMU	Company Name	Disposition Number	AAC Type	Cover Group / Species	Utilization used to determine Harvest Level in PFMS				Operational Utilization				Coniferous Harvest Level (m <sup>3</sup> /yr) based on Operational Utilization
					Top Diameter (cm)	Stump Diameter (cm)	Minimum Length (m)	Stump Height (cm)	Top Diameter (cm)	Stump Diameter (cm)	Minimum Length (m)	Stump Height (cm)	
E14	West Fraser Mills Ltd.	FMA8800025	All	C, CD, DC, D	11	15	3.76	15	N/A	N/A	N/A	N/A	N/A

**Table 6. Historical Deciduous Allocations and Annual Allowable Cuts**

FMU	Company Name	Disposition Number	Landbase Management Type	Source	Cover Group / Species	Total Deciduous AAC (m <sup>3</sup> ) 15+ / 10 / 15 cm
E14	West Fraser Mills Ltd.	FMA8800025	Single Combined	FMA-Only	C, CD, DC, D	248,332
E14		Local Use	Single Combined	FMA-Only	C, CD, DC, D	1,500
E14	FMA AAC Subtotal	FMA8800025	Single Combined	FMA-Only	C, CD, DC, D	249,832
<b>FMU E14 Total</b>						<b>249,832</b>

Notes:

Effective date: May 1, 2010

## Table 7. Approved Deciduous Allocations and Annual Allowable Cuts

Effective Date: May 1, 2016

FMU	Company Name	Disposition Number	Landbase Management Type	Source	Cover Group / Species	Deciduous AAC (m <sup>3</sup> ) 15+ / 10 / 30 cm	Total Approved AAC (m <sup>3</sup> )
E14	West Fraser Mills Ltd.	FMA8800025	Single Combined	FMA-Only	C, CD, DC, D	327,100	327,100
E14		Local Use	Single Combined	FMA-Only	C, CD, DC, D	1,500	1,500
E14	FMA AAC Subtotal	FMA8800025	Single Combined	FMA-Only	C, CD, DC, D	328,600	328,600
<b>FMU E14 Total</b>						<b>328,600</b>	<b>328,600</b>

Notes:

Local use is 1,500 m<sup>3</sup> per FMA8800025 Section 8(2).

Forest Management Unit E14 deciduous annual allowable cut as stated in the West Fraser Mills Ltd. (Hinton) 2014 Detailed Forest Management Plan dated November 17, 2016, is reduced to the nearest one hundred from 328,685 m<sup>3</sup> to 328,600 m<sup>3</sup>.

The approved landbase is defined as being 'single-combined' or otherwise known as having been 'dissolved', there are no separate or distinct primary or secondary AACs.

**Table 8. Deciduous Periodic Allowable and Quadrant Authorized Allowable Cuts**

8.1	E14	West Fraser Mills Ltd.	Disposition: FMA8800025				
		Period Start: 1-May-13	Period End: 30-Apr-18				
		<b>Period Segment Start Date</b>	<b>Period Segment End Date</b>	<b>Years in Period Segment</b>	<b>Approved Harvest Level (m<sup>3</sup>/yr)</b>	<b>Total Deciduous PAC Contribution (m<sup>3</sup>)</b>	
1		1-May-13	30-Apr-16	3.0000000000	249,832	749,496.0000	
2		01-May-16	30-Apr-18	2.0000000000	328,600	657,200.0000	
		Periodic Reconciliation Volume (m <sup>3</sup> )				193,216	<p>The approved landbase is defined as being 'single-combined' or otherwise known as having been 'dissolved', there are no separate or distinct primary or secondary AACs.</p> <p>The primary deciduous reconciliation volume of 386,432 m<sup>3</sup> was approved to be utilized over a 10 year period from May 1, 2013 to April 30, 2023. 193,216 m<sup>3</sup> will be utilized from May 1, 2013 to April 30, 2018. The remaining 193,216 m<sup>3</sup> will be utilized from May 1, 2018 to April 30, 2023.</p> <p>Unused volume numbers come from the March 26, 2014 "approval in principle" letter issued by Forest Management Branch.</p>
		<b>PAC Total</b>				<b>1,599,912</b>	

**Table 9. West Fraser Mills Ltd. (Hinton) FMA Deciduous Chargeability**

Effective Date: May 1, 2016

FMU	Company Name	Disposition Number	Deciduous Species Used in AAC	Species NOT Chargeable to AAC	Rights to Species NOT Chargeable to AAC	Structure Retention (%)	Structure Retention (%) Accounted for in AAC	Net Landbase Deletions and Deferrals	Net Landbase Deletions and Deferrals: Rights to Timber	Industrial Salvage Chargeability Strategy
E14	West Fraser Mills Ltd.	FMA8800025	All	None	None	1	Structure retention is not accounted for in the AAC.	n/a	n/a	All industrial salvage is AAC chargeable.

**Table 10. West Fraser Mills Ltd. (Hinton) FMA Deciduous Utilization**

Effective Date: May 1, 2016

FMU	Company Name	Disposition Number	AAC Type	Cover Group / Species	Utilization used to determine Harvest Level in PFMS				Operational Utilization				Deciduous Harvest Level (m <sup>3</sup> /yr) based on Operational Utilization
					Top Diameter (cm)	Stump Diameter (cm)	Minimum Length (m)	Stump Height (cm)	Top Diameter (cm)	Stump Diameter (cm)	Minimum Length (m)	Stump Height (cm)	
E14	West Fraser Mills Ltd.	FMA8800025	All	C, CD, DC, D	10	15	2.67	30	N/A	N/A	N/A	N/A	N/A

**Table 11. Fiber Transfer Agreements within the West Fraser Mills Ltd. (Hinton) FMA Area**

Source Company	Source Dispositon Number	Transfer Type	Company Directed To	Species Group	Volume (m <sup>3</sup> /yr)	Comments
No fibre transfer agreements	n/a	n/a	n/a	n/a	n/a	n/a