

Alberta-Pacific Forest Products Inc.

Forest Management Agreement Area



Forest Stewardship Report

Reporting Period May 1, 2015–April 30, 2020

Appendix II

Quota Holder Information

1. Alberta-Plywood (West Fraser Woodlands) – FMUs S18 / S11 / S14
2. Ed Bobocel Lumber – FMUs S23 / L2 / L1 / L8
3. Northland Forest Products – FMUs A14 / A15 / L03 / L01 / L08
4. Vanderwell Contractors – FMUs S22 / S18 / L2

Al-Pac FMA Area – Forest Stewardship Report 2015–2020
Alberta-Plywood (West Fraser Woodlands)
FMUs – S18 / S11 / S14

➤ **Approved FMP SHS Variance Assessment**

- Please see attached files in Appendix B with Variance tables for:
 - S11-A
 - S11-B
 - S18-A
 - S18-B
 - S14-A

➤ **AAC Review**

Table 1. AAC Review

FMU	Conifer	
	Project Volume (m3/ha)	Delivered Volume (m3/ha)
S11	188	219
S14	198	212
S18	187	174

*Delivered volume includes fire killed

*Has to be averaged for 5 years due to unscaled stockpiles

*Do not have data for delivered incidental deciduous

*Does not include KSL volume

➤ **Growth and Yield Maintenance Program**

- No PSP plots have been established to date

➤ **Seed Availability and Usage**

Table 2. Seed Availability (next page)

Notes: “Non-TIC” seed lots AB-Ply used are below.

As of November 30, 2020, this is the current amount Ab-Ply has on stock
(kgs / # of trees)

1. Seed lot BL 14-89-7-5-2007 SW – 4.059 kg; 835,180 trees
2. Seed lot ZF 8-87-8-5-2011 SW – 0.0 kgs; 0 trees
3. Seed lot BRC 87-10-5-93 SW – 30.527 kg; 6,621,900 trees

Operator: Alberta-Plywood

Seed Zone	Seed Inventory (kg)	Number of seedlings that could be planted with current seed inventory	Area that could be planted with current seed inventory (ha)	Approximate area to be cut in next 10 years (ha) (from SHS))	Number of seedlings required to plant SHS	Seed required for next 10 years (kg)	Required to collect (kg)
FMU: S18, S11, S14							
White Spruce							
CM 1.2	0.00	0	0	0	0	0.00	0
CM 2.1	0.00	0	0	0	0	0.00	0
CM 2.2	0.00	0	0	649	973,039	64.87	64.869243
CM 2.3	91.93	43,500,000	29,000	3,348	5,022,328	334.82	242.89189
CM 2.4	1838.02	397,012,000	264,675	4,677	7,016,082	467.74	-1370.281
CM 3.1	0.00	0	0	0	0	0.00	0
CM 3.2	386.45	113,040,000	75,360	0	0	0.00	0
CM 3.3	75.27	27,097,000	18,065	622	933,483	62.23	-13.03783
LBH 1.3	38.99	14,035,000	9,357	4,440	6,660,374	444.02	405.03493
LBH 1.5	0.00	0	0	0	0	0.00	0
LF1.1	67.76	27,350,000	18,233	0	0	0.00	0
UBH 1.1	0.00	0	0	0	0	0.00	0
Jack Pine							
CM 1.2	0.00	0	0	0	0	0.00	0
CM 2.1	0.00	0	0	0	0	0.00	0
CM 2.2	0.00	0	0	4	6,632	0.44	0.4421319
CM 2.3	0.00	0	0	11	16,901	1.13	1.1267598
CM 2.4	16.11	1,040,500	694	914	1,370,628	91.38	75.2652
CM 3.1	0.00	0	0	0	0	0.00	0
CM 3.2	0.00	0	0	0	0	0.00	0
CM 3.3	0.00	0	0	14	21,179	1.41	1.4119111
LBH 1.3	0.00	0	0	0	0	0.00	0
LBH 1.5	0.00	0	0	0	0	0.00	0
LF1.1	0.00	0	0	0	0	0.00	0
UBH 1.1	0.00	0	0	0	0	0.00	0
Black Spruce							
CM 1.2	0.00	0	0	0	0	0.00	0
CM 2.1	0.00	0	0	0	0	0.00	0
CM 2.2	0.00	0	0	13	18,889	1.26	1.2592623
CM 2.3	0.00	0	0	11	15,972	1.06	1.0647759
CM 2.4	1.50	1,490,400	994	258	386,996	25.80	24.299719
CM 3.1	0.00	0	0	0	0	0.00	0
CM 3.2	11.02	6,865,500	4,577	0	0	0.00	0
CM 3.3	1.40	1,290,000	860	11	17,206	1.15	-0.252924
LBH 1.3	0.00	0	0	20	29,414	1.96	1.9609294
LBH 1.5	0.00	0	0	0	0	0.00	0
LF1.1	1.40	1,165,000	777	0	0	0.00	0
UBH 1.1	0.00	0	0	0	0	0.00	0

➤ **VOIT 7**

- Fire salvage from the 2019 McMillan Complex Wildfire.
- See Al-Pac Report VOIT 7 for comprehensive wildfire metrics.
- Ab-Ply McMillan Complex Wildfire salvage – Table 3

Table 3. Salvage (ha)

Timber Year	Area of Salvaged Blocks (ha)
2019–2020	3751.7
2020–2021	1409.3
Grand Total	5067.7

➤ **VOIT 8 – Blowdown Salvage**

- No blowdown events to report

➤ **VOIT 10 – Stand Structure****Table 4. Retention Summary**

	Harvested Area (ha)	Target Retention	Target Percent Retention	Retention Area (ha)	Percent Retention %	Notes
S110	2150.05	47.12	2.19%	74.67	3.47%	We are on track with meeting our retention targets in S11.
2015/2016	704.89	7.05	1.00%	29.42	4.17%	
2016/2017	164.33	1.64	1.00%	2.44	1.49%	
2017/2018	462.94	13.89	3.00%	20.39	4.40%	
2018/2019	342.91	10.29	3.00%	9.64	2.81%	
2019/2020	474.98	14.25	3.00%	12.78	2.69%	
S140	1938.81	58.16	3.00%	32.51	1.68%	We are a bit low on our S14 retention and will be increasing the retention for the last 5 years of the FMP Period to achieve the FMP Retention target.
2017/2018	1254.45	37.63	3.00%	18.27	1.46%	
2018/2019	509.18	15.28	3.00%	7.34	1.44%	
2019/2020	175.18	5.26	3.00%	6.90	3.94%	
S180	6698.45	166.72	2.49%	206.20	3.08%	We are on track with meeting our retention targets in S18.
2015/2016	376.37	3.76	1.00%	7.66	2.04%	
2016/2017	1335.29	13.35	1.00%	21.05	1.58%	
2017/2018	268.85	8.07	3.00%	10.98	4.08%	
2018/2019	1061.54	31.85	3.00%	33.33	3.14%	
2019/2020	3656.40	109.69	3.00%	133.18	3.64%	
Grand Total	10787.31	272.00	2.52%	313.39	2.91%	

➤ **VOITs 9, 12, and 13 – OGR Compliance**

- There has been zero non-compliance related to these items.

➤ **VOITs 19 and 20 – Silviculture / RSA****Table 5. Conifer Reforestation Program**

Years	Area Harvested (ha)	Area Planted (ha)	Percent Planted (ha)	Area Site Prepped (ha)	Percent Site Prepped (ha)
S11	2,180.6	1,615.5	74.1%	75.9	3.5%
2015/2016	704.9	188.7	26.8%	17.5	2.5%
2016/2017	164.3	648.9	394.9%	0.0	0.0%
2017/2018	462.9	287.5	62.1%	0.0	0.0%
2018/2019	342.9	490.4	143.0%	58.4	17.0%
2019/2020	505.5	0.0	0.0%	0.0	0.0%
S14	1,938.8	1,677.5	86.5%	394.1	20.3%
2017/2018	1,254.5	0.0	0.0%	123.4	9.8%
2018/2019	509.2	1,159.3	227.7%	144.7	28.4%
2019/2020	175.2	518.2	295.8%	26.0	14.8%
S18	6,698.5	5,602.4	83.6%	1,372.5	20.5%
2015/2016	376.4	763.9	203.0%	24.5	6.5%
2016/2017	1,335.3	783.8	58.7%	86.9	6.5%
2017/2018	268.9	1,229.2	457.2%	140.1	52.1%
2018/2019	1,061.5	509.4	48.0%	418.9	39.5%
2019/2020	3,656.4	2,316.1	63.3%	702.1	19.2%
Grand Total	10,817.9	8,895.4	82.2%	1,842.5	17.0%

Table 6. Conifer Reforestation – Monitoring Program

Year	Establishment Survey Area (ha)	Satisfactorily Regenerated Area (ha)	Percent Meeting SR Standards (%)
S11	47.3	47.3	100.0%
2015/2016	32.8	32.8	100.0%
2017/2018	14.4	14.4	100.0%
S14	125.8	125.8	100.0%
2015/2016	3.0	3.0	100.0%
2016/2017	122.8	122.8	100.0%
S18	2,654.5	2,654.5	100.0%
2016/2017	1,225.1	1,225.1	100.0%
2017/2018	125.1	125.1	100.0%
2018/2019	233.2	233.2	100.0%
2019/2020	1,071.2	1,071.2	100.0%
Grand Total	2,827.6	2,827.6	100.0%

➤ **VOIT 23 – Non-Invasive Species**

- Zero hectares of invasive / non-native plant species have been found.
- No non-compliance

➤ **VOITs 24, 25, and 27 – OGR Compliance**

- There has been zero non-compliance related to these items.

Appendix B. SHS Variance

SR SHS Tracking between 2015 and 2025 (timber year) Alberta-Plywood																															
PD 1, Year 1-10																															
Harvest Profile					Planned for Harvest (ha)					Partly Combined and Partly Not Combined									AsBuilt					Combined As-Built & Planned					Unplanned		
										Variance				SHS Assessment (Excluding Slivers)										Variance				SHS Assessment (Excluding Slivers)			
					Substantial				All Slivers					Harvested (ha)				Substantial	SHS Assessment (Excluding Slivers)												
Compartment	Company Specific Yield Strata	Provincial Yield Strata	Approved DFA 10 Year SHS	Operator Approved FMP 10 Year SHS	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	Planned Additions	Planned + Harvested Deletions	Planned + Harvested Deferrals	Total D & D	Planned + Harvested Additions	Planned + Harvested Deletions & Deferrals	Total Slivers	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)	Difference in Planned Area & 10yr FMP SHS	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	Additions	Deletions	Deferrals	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)	Remaining Available Area (SHS & Non-SHS)	
S11-A	All	All	3,105	3,104	310	-	5	-	315	5	107	128	235	183	188	370	0.17%	(230)	(2,789)	1,029	-	11	2	1,043	18	107	128	0.59%	(216)	1,747	1,343
	Aw/AwU	D	0	-	-	-	5.20	-	5.20	5.2	-	-	-	123.2	-	123.2	100.00%	5	5	-	-	4.5	-	4.5	10	-	-	100.00%	10	(10)	-
	PJMX	DC-P	-	-	-	-	-	-	-	-	-	-	-	0.2	-	0.2	0.00%	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-
	AwSx	DC-S	477	477	20.20	-	-	-	20.20	-	5.9	9.0	14.9	6.4	7.0	13.4	0.00%	(15)	(457)	130.4	-	-	-	130.4	-	6	9	0.00%	(15)	327	305
	SxAw	CD-SW	497	497	46.70	-	-	-	46.70	-	22.0	15.1	37.1	1.6	21.5	23.1	0.00%	(37)	(450)	215.6	-	6.4	-	222.0	6	22	15	1.29%	(31)	228	176
	PJMX	CD-P	-	-	-	-	-	-	-	-	-	-	-	0.6	-	0.6	0.00%	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-
	SxAw	CD-SB	4	4	-	-	-	-	-	-	-	-	-	0.5	0.1	0.6	0.00%	-	(4)	-	-	-	-	-	-	-	-	0.00%	-	4	3
	Sw	C-SW	2,102	2,102	242.60	-	-	-	242.60	-	71.1	104.1	175.2	13.9	155.9	169.8	0.00%	(175)	(1,860)	670.1	-	-	-	670.1	-	71	104	0.00%	(175)	1,190	858
	Pj	C-P	-	-	-	-	-	-	-	-	-	-	-	3.5	-	3.5	0.00%	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-
	SbG	C-SB	25	25	0.30	-	-	-	0.30	-	7.6	-	7.6	28.2	3.3	31.5	0.00%	(8)	(24)	13.3	-	2.3	-	15.6	2	8	-	9.36%	(5)	9	0
	SBFM	C-SBFM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-
	X	NoStrata	-	-	-	-	-	-	-	-	-	-	-	4.5	-	4.5	0.00%	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-
Note: Values may be affected by rounding																															

Alberta-Plywood (West Fraser Woodlands)

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S18-A	All	All	12,363	3,677	-	-	-	-	-	-	81	277	358	362	224	586	0.00%	(358)	(3,677)	2,161	-	2,798	449	5,408	3,247	81	277	88.32%	2,889	(1,732)	933	
	Aw/AwU	D	7,591	-	-	-	-	-	-	-	0.2	0.4	0.6	211.7	1.7	213.4	0.00%	(1)	-	2.4	-	640.9	128.3	771.6	769	0	0	100.00%	769	(772)	(5)	
	PJMX	DC-P	15	13	-	-	-	-	-	-	-	3.4	3.4	0.2	-	0.2	0.00%	(3)	(13)	-	-	5.9	2.1	8.0	8	-	3	63.83%	5	5	9	
	AwSx	DC-S	1,084	860	-	-	-	-	-	-	14.0	71.8	85.8	22.9	49.3	72.2	0.00%	(86)	(860)	596.1	-	388.9	34.0	1,019.0	423	14	72	49.15%	337	(159)	129	
	SxAw	CD-SW	1,332	973	-	-	-	-	-	-	9.7	40.6	50.3	22.4	52.3	74.7	0.00%	(50)	(973)	599.0	-	544.0	9.0	1,152.0	553	10	41	56.84%	503	(179)	271	
	PjMx	CD-P	30	8	-	-	-	-	-	-	-	2.0	2.0	0.1	1.4	1.5	0.00%	(2)	(8)	3.5	-	36.5	36.7	76.7	73	-	2	933.96%	71	(69)	1	
	SxAw	CD-SB	32	11	-	-	-	-	-	-	-	8.7	8.7	0.1	0.6	0.7	0.00%	(9)	(11)	2.1	-	1.4	-	3.5	1	-	9	12.28%	(7)	8	0	
	Sw	C-SW	1,896	1,513	-	-	-	-	-	-	32.6	70.3	102.9	39.6	94.8	134.4	0.00%	(103)	(1,513)	865.0	-	1,007.8	66.6	1,939.4	1,074	33	70	70.99%	972	(426)	451	
	Pj	C-P	100	85	-	-	-	-	-	-	19.0	15.6	34.6	2.7	6.5	9.2	0.00%	(35)	(85)	43.9	-	136.0	44.4	224.3	180	19	16	211.08%	146	(139)	0	
	SbG	C-SB	282	213	-	-	-	-	-	-	5.8	64.0	69.8	46.2	17.2	63.4	0.00%	(70)	(213)	48.7	-	24.1	101.6	174.4	126	6	64	59.12%	56	38	77	
	SBFM	C-SBFM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-
	X	NoStrata	-	-	-	-	-	-	-	-	0.1	0.1	0.2	16.0	0.5	16.5	0.00%	(0)	-	0.3	-	12.8	26.3	39.4	39	0	0	100.00%	39	(39)	(1)	
Note: *3547 Ha of Total Harvested were fire salvage blocks; 93 ha of those salvaged under a DTP. Values may be affected by rounding																																

Alberta-Plywood (West Fraser Woodlands)

Al-Pac FMA Area – Forest Stewardship Report 2016–2020
Ed Bobocel Lumber – Quota Holder Data
FMUs – S23 / L2 / L1 / L8

➤ **Approved FMP SHS Variance Assessment**

- Please see Appendix D with variance tables for:
 - L01-A
 - L02-B
 - S23-A
 - L08-A

➤ **AAC Review**

Table 1. AAC Review

L01	Year	Conifer Volume Projected (m3/ha)	Conifer Volume Delivered (m3/ha)
	2015-16	0	0
	2016-17	154	162
	2017-18	0	0
	2018-19	154	157
	2019-20	154	155
	Total	154	158
L02	Year	Conifer Volume Projected (m3/ha)	Conifer Volume Delivered (m3/ha)
	2015-16	0	0
	2016-17	0	0
	2017-18	154	150
	2018-19	154	155
	2019-20	154	155
	Total	154	153
L08	Year	Conifer Volume Projected (m3/ha)	Conifer Volume Delivered (m3/ha)
	2015-16	0	0
	2016-17	129	125
	2017-18	129	125
	2018-19	129	125
	2019-20	129	125
	Total	129	125
S23	Year	Conifer Volume Projected (m3/ha)	Conifer Volume Delivered (m3/ha)
	2015-16	0	0
	2016-17	155	156
	2017-18	155	156
	2018-19	155	155
	2019-20	155	155
	Total	155	156

➤ **Growth and Yield Maintenance Program**

- No PSP plots have been established to date.
- PSP plot establishment is not required by Ed Bobocel Lumber.

➤ **Seed Availability and Usage****Table 2. Seed Availability**

Inventory With Seedlot Test Data											
Owner: EBL - Ed Bobocel Lumber [1993] Ltd.											
Species: PJ - <i>Pinus banksiana</i> - Jack Pine											
INV#	Seedlot Number	Sublot	SD_ZONE	From	To	Purity	Seed/Kg	Germ	Germ	Last Test Date	Balance (kg)
615	SJ 75-15-4-1977 PJ		LBH1.5			99.80%	241,255	84%	80%	1993-09-30	0.6
4087	SJ 4-72-16-4-2005 P J		CM2.4	590	600	99.30%	286,862	89%	94%	2005-10-31	12,500
4942	EBL5-71-13-4-2011 PJ		CM3.1	646	648	97.70%	270,197	93%	94%	2011-07-21	5,618
										Total Balance:	7,468
Species: PUPJ - <i>Lodgepole Pine/Jack Pine</i>											
INV#	Seedlot Number	Sublot	SD_ZONE	From	To	Purity	Seed/Kg	Germ	Germ	Last Test Date	Balance (kg)
5467	EBL 11-69-26-4-2013 PUPJ		CM3.2	660	675	99.30%	301,386	92%	90%	2013-05-06	19,126
										Total Balance:	19,126
Species: SB - <i>Picea mariana</i> - Black Spruce											
INV#	Seedlot Number	Sublot	SD_ZONE	From	To	Purity	Seed/Kg	Germ	Germ	Last Test Date	Balance (kg)
5888	EBL 21-71-20-4-2014 SB		CM2.4	595	597	98.40%	1,057,082	97%	93%	2014-05-01	0.575
										Total Balance:	0.575
Species: SW - <i>Picea glauca</i> - White Spruce											
INV#	Seedlot Number	Sublot	SD_ZONE	From	To	Purity	Seed/Kg	Germ	Germ	Last Test Date	Balance (kg)
3556	SJ 17-70-25-4-1999 SW		CM3.2	581		99.90%	450,045	45%	46%	2000-11-07	0.279
3557	SJ 12-72-18-4-2000 SW		CM2.4	520		99.90%	513,611	39%	89%	2000-10-27	0.124
INV#	Seedlot Number	Sublot	SD_ZONE	From	To	Purity	Seed/Kg	Germ	Germ	Last Test Date	Balance (kg)
3808	SJ 71-1S-4-2002 SW		CM3.1	640		100.00%	672,948	43%	80%	2002-11-08	0.32
3887	SJ 12-72-19-4-2003SW		CM2.4	550	650	99.90%	591,716	53%	85%	2003-11-10	1.37
4289	EBL 12-6B-25-4-2007 SW	Strat	CM3.2	710	715						0.278
4259	SJ 19-70-16-4-2007 SW		CM2.4	549	610	99.60%	529,101	87%	91%	2007-10-19	3.634
5643	EBL 2B-69-12-4-2013 SW	Bulk	CM3.1	584	585						17.584
5643	EBL 2B-69-12-4-2013 SW	STR	CM3.1	584	585						0.221
5642	ESL 17-71-20-4-2013SW	..*	CM3.2	596	600	99.40%	526,039	56%	89%	2013-11-25	17.957
5642	EBL 17-71-20-4-2013 SW	Strat	CM3.2	596	600						0.255
6595	ESL 19-70-20-4-2015 SW		CM3.2	632	633	97.90%	671,141	26%	23%	2015-11-17	0.53
6892	EBL 1-70-15-4-2016SW		CM2.4	580	581	99.40%	473,934	79%	86%	2016-11-16	6.24
										Total Balance:	487,920

➤ **VOIT 7 – Wildfire Salvage**

- n/a – No fire salvage in the reporting period.

➤ **VOIT 8 – Blowdown Salvage**

- See VOIT 8 in Al-Pac main report – L1 and L8 blowdown event in 2017.

➤ **VOIT 10****Table 3. Retention Summary**

L1	Year	Area Harvested (ha)	Retention Area (ha)	Percent Retention (%)
	2015-16	318.7	0.0	0.0
	2016-17	0.0	0.0	0.0
	2017-18	0.0	0.0	0.0
	2018-19	242.9	7.3	3.0
	2019-20	254.2	26.4	10.4
	Total	815.8	33.7	4.1
L2	Year	Area Harvested (ha)	Retention Area (ha)	Percent Retention (%)
	2015-16	0.0	0.0	0.0
	2016-17	0.0	0.0	0.0
	2017-18	203.4	8.1	4.0
	2018-19	0.0	0.0	0.0
	2019-20	131.6	5.3	4.0
	Total	335.1	13.4	4.0
L8	Year	Area Harvested (ha)	Retention Area (ha)	Percent Retention (%)
	2015-16	0.0	0.0	0.0
	2016-17	0.0	0.0	0.0
	2017-18	201.4	0.0	0.0
	2018-19	234.3	12.9	5.5
	2019-20	22.8	1.3	5.5
	Total	458.6	14.2	3.1
S23	Year	Area Harvested (ha)	Retention Area (ha)	Percent Retention (%)
	2015-16	0.0	0.0	0.0
	2016-17	572.3	17.2	3.0
	2017-18	0.0	0.0	0.0
	2018-19	32.7	1.0	3.2
	2019-20	0.0	0.0	0.0
	Total	605.0	18.2	3.0

➤ **VOITs 9, 12, and 13 – OGR Compliance**

- There have been zero non-compliance related to these items.

➤ **VOITs 19 and 20 – Silviculture / RSA****Table 4. Conifer Reforestation Program**

L1	Year	Area Harvested (ha)	Area Planted (ha)	Percent Planted
	2015-16	318.7	176	55.23%
	2016-17	0.0	0.0	0.00%
	2017-18	0.0	0.0	0.00%
	2018-19	242.9	242.9	100.00%
	2019-20	254.2	222	87.13%
	Total	815.8	640	78.50%
L2	Year	Area Harvested (ha)	Area Planted (ha)	Percent Planted
	2015-16	0.0	-	0.00%
	2016-17	0.0	-	0.00%
	2017-18	203.4	203	100.00%
	2018-19	0.0	-	0.00%
	2019-20	131.6	121	91.92%
	Total	335.0	324	96.82%
L8	Year	Area Harvested (ha)	Area Planted (ha)	Percent Planted
	2015-16	0.0	0.0	0.00%
	2016-17	0.0	-	0.00%
	2017-18	201.4	0.0	0.00%
	2018-19	234.3	-	0.00%
	2019-20	22.8	-	0.00%
	Total	458.6	0	0.00%
S23	Year	Area Harvested (ha)	Area Planted (ha)	Percent Planted
	2015-16	0.0	0.0	0.00%
	2016-17	572.3	323	56.51%
	2017-18	0.0	0.0	0.00%
	2018-19	32.7	33	99.91%
	2019-20	0.0	-	0.00%
	Total	605.0	356	58.86%

Table 5. Conifer Reforestation – Monitoring Program

L1 / L2 / S23 / L8	Year	Establishment Survey Area (ha)	Satisfactorily Regenerated Area (ha)	Percent Meeting SR Standards
	2015-16	204.9	169.1	82.53%
	2016-17	585.4	585.4	100.00%
	2017-18	0	0	0.00%
	2018-19	695.5	695.5	100.00%
	2019-20	799.4	587.5	73.49%
	Total	2285.2	2037.5	89.16%

➤ **VOIT 23 – Non-Invasive Species**

- Zero hectares of invasive / non-native plant species have been found.

➤ **VOITs 24, 25, and 27 – OGR Compliance**

- There has been zero non-compliance related to these items.

SR SHS Tracking between 2015 and 2025 (timber year)										Ed Bobocel Lumber																																																											
PD 1, Year 1-10																																																																					
Harvest Profile										Planned for Harvest (ha)										Asbuilt										Combined As-Built & Planned																																							
										Variance																				Variance										SHS Assessment										Unplanned																			
										Substantial										Silvers										Harvested (ha)										SHS Assessment (Excluding Silvers)										SHS Assessment (Excluding Silvers)																			
Compartment	Company Specific Yield Strata	Provincial Yield Strata	Approved DFA 10 Year SHS	Operator Approved FMP 10 Year SHS	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	Additions	Deletions	Deferrals	Total	Additions	Deletions & Deferrals	Total	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	SHS Variance (Additions %)	Difference in Area (Subst. Add. - DBD)	Difference in Area Total Harvested - 10yr FMP SHS	Additions	Deletions	Deferrals	SHS Variance (Additions %)	Difference in Area (Subst. Add. - DBD)	Remaining Available Area (SHS & Non-SHS)	Unplanned SHS in																																						
LD1-A	All	All	9,268	915	233				233		8		8	43	35	78	67		54			120	0.00%	(8)	(794)		8			0.00%	(8)	682	5																																				
	Aw/AwU	D	6,327											22.5		22.5	5.4					5.4	100.00%						100.00%		(5)																																						
	PjMX	DC-P	101	51										0.7		0.7							0.00%		(51)					0.00%		51																																					
	AwSk	DC-S	119																			0.00%								0.00%																																							
	SkAw	CD-SW	148																			0.00%								0.00%																																							
	PjMx	CD-P	172	59	12.07				12.07		4.6		4.6	0.1	0.6	0.7	3.7					3.7	0.00%	(5)	(55)		5			0.00%	(5)	43																																					
	SkAw	CD-SB	22																			0.00%								0.00%																																							
	Sw	C-SW	386																			0.00%								0.00%																																							
	Pj	C-P	1,849	668	220.8				220.83		3.5		3.5	11.7	34.8	46.4	57.4		53.6			111.0	0.00%	(3)	(557)		3			0.00%	(3)	336	3																																				
	SbG	C-SB	144	136																		0.00%								0.00%		136	1																																				
	SBFM	C-SBFM																				0.00%								0.00%																																							
	X	NoStrata												8.0		8.0						0.00%								0.00%																																							
Note:										* Deletions and Deferrals to be provided in shapelite format for next FMP										The following operating plans contribute to this variance calculation:																																																	
Values may be affected by rounding:																				Licence										Working Area										Operating Year										Comments																			
																				CTLL010017										72124 - Owl River										2015 - 2016										Harvesting is completed. SHS is moved over to as built																			
																				CTLL010017										69134 - Owl River										2020-2021										Partial Harvesting in this area. Harvesting to be completed in 2021-2022. Planned harvest to be moved to Final Harvest after cutblock updates.																			
SR SHS Tracking between 2015 and 2025 (timber year)										Ed Bobocel Lumber																																																											
PD 1, Year 1-10																																																																					
Harvest Profile										Planned for Harvest (ha)										Asbuilt										Combined As-Built & Planned																																							
										Variance																				Variance										SHS Assessment										Unplanned																			
										Substantial										Silvers										Harvested (ha)										SHS Assessment (Excluding Silvers)										SHS Assessment (Excluding Silvers)																			
Compartment	Company Specific Yield Strata	Provincial Yield Strata	Approved DFA 10 Year SHS	Operator Approved FMP 10 Year SHS	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	Additions	Deletions	Deferrals	Total	Additions	Deletions & Deferrals	Total	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	SHS Variance (Additions %)	Difference in Area (Subst. Add. - DBD)	Difference in Area Total Harvested - 10yr FMP SHS	Additions	Deletions	Deferrals	SHS Variance (Additions %)	Difference in Area (Subst. Add. - DBD)	Remaining Available Area (SHS & Non-SHS)	Unplanned SHS in																																						
LD2-B	All	All	10,736	1,042	43																																																																

SR SHS Tracking between 2015 and 2025 (timber year)										Ed Bobocel Lumber																																												
PD 1, Year 1-10																																																						
Harvest Profile					Planned for Harvest (ha)								Asbuilts					Combined As-Built & Planned					Unplanned																															
					Substantial				Variance				Harvested (ha)					SHS Assessment (Excluding Silvers)		Variance Substantial		SHS Assessment (Excluding Silvers)																																
Compartment	Company Specific Yield Strata	Provincial Yield Strata	Approved DFA 10 Year SHS	Operator Approved FMP 10 Year SHS	SHS 1-10Yr	SHS 11-20Yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	Additions	Deletions	Deferrals	Total	Additions	Deletions & Deferrals	Total	SHS 1-10Yr	SHS 11-20Yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	SHS Variance (Additions %)		Difference in Area (Subst. Add. - D&D)	Difference in Area Total Harvested - 10Yr FMP SHS	Additions	Deletions	Deferrals	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)	Remaining Available Area (SHS & Non-SHS)	Unplanned SHS in Compartment																						
L08-A	All	All	4,509	1,451	-	-	-	-	-	-	-	-	-	-	-	-	441	-	40	43	525	0.00%	-	(927)	83	-	-	-	5.73%	83	1,451	1,010																						
	Aw/AwU	D	2,832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.2	-	26.2	100.00%	-	26	26	-	-	-	100.00%	26	(26)	-																						
	PjMX	DC-P	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	(5)	-	-	-	-	-	0.00%	-	5	5																						
	AwSx	DC-S	228	228	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	(228)	-	-	-	-	-	0.00%	-	228	228																						
	SxAw	CD-SW	275	218	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	(218)	-	-	-	-	-	0.00%	-	218	218																						
	PjMx	CD-P	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	(0)	-	-	-	-	-	0.00%	-	0	0																						
	SxAw	CD-SB	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	(2)	-	-	-	-	0.00%	-	2	2																						
	Sw	C-SW	307	206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	-	2.1	0.00%	-	(204)	12	-	-	-	1.00%	2	204	206																						
	Pj	C-P	649	588	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.1	-	12.1	0.00%	-	(141)	2	-	-	-	2.06%	12	141	153																						
	SDG	C-SB	201	201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	(196)	-	-	-	-	0.00%	-	196	196																						
	SBFM	C-SBFM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-	-	-	-	0.00%	-	-	-																						
	X	NoStrata	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	43	43	-	-	-	100.00%	43	(43)	-																						
Note:					* Deletions and Deferrals to be provided in shapefile format for next FMP										The following operating plans contribute to this variance calculation:																																							
					* Values may be affected by rounding																																																	
															Licence										Working Area										Operating Year										Comments									
															CTL08J001										OCR										2017 - 2019										Harvesting is completed.									
															CTL08J001										70144										2019-2020										Harvesting is completed.									
SR SHS Tracking between 2015 and 2025 (timber year)										Ed Bobocel Lumber																																												
PD 1, Year 1-10																																																						
Harvest Profile					Planned for Harvest (ha)								Asbuilts					Combined As-Built & Planned					Unplanned																															
					Substantial				Variance				Harvested (ha)					SHS Assessment (Excluding Silvers)		Variance Substantial		SHS Assessment (Excluding Silvers)																																
Compartment	Company Specific Yield Strata	Provincial Yield Strata	Approved DFA 10 Year SHS	Operator Approved FMP 10 Year SHS	SHS 1-10Yr	SHS 11-20Yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	Additions	Deletions	Deferrals	Total	Additions	Deletions & Deferrals	Total	SHS 1-10Yr	SHS 11-20Yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	SHS Variance (Additions %)		Difference in Area (Subst. Add. - D&D)	Difference in Area Total Harvested - 10Yr FMP SHS	Additions	Deletions	Deferrals	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)	Remaining Available Area (SHS & Non-SHS)	Unplanned SHS in Compartment																						
S23-A	All	All	3,719	1,075	242	-	207	-	450	207	106	57	163	103	129	232	488	-	86	32	605	19.30%	45	(470)	325	106	57	-	30.21%	162	625	53																						
	Aw/AwU	D	2,150	-	-	-	6.72	-	6.72	-	-	-	-	-	-	-	-	-	37.6	-	37.6	100.00%	7	38	44	-	-	-	100.00%	44	(44)	-																						
	PjMX	DC-P	19	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3	-	2.3	0.00%	-	(9)	2	-	-	-	20.00%	2	9	11																						
	AwSx	DC-S	188	163	-	-	17.91	-	79.10	-	-	-	-	79.1	27.8	-	27.8	3.0	16.3	19.3	81.0	-	11.6	-	91	28	-	-	55.73%	63	(27)	20																						
	SxAw	CD-SW	373	270	-	-	96.28	-	11.50	-	-	-	-	11.5	22.1	-	22.1	4.5	28.0	32.5	116.2	-	8.3	-	20	22	-	-	7.34%	(2)	38	7																						
	PjMx	CD-P	54	31	-	-	13.84	-	20.70	-	-	-	-	20.7	4.8	-	4.8	1.2	0.9	2.1	22.6	-	0.2	-	21	5	-	-	66.68%	16	(26)	11																						
	SxAw	CD-SB	7	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	(3)	-	-	-	-	0.00%	-	3	3																						
	Sw	C-SW	232	130	-	-	13.89	-	62.60	-	-	-	-	62.6	-	2.0	2.0	8.0	17.5	25.5	65.6	-	13.5	-	76	-	-	-	58.61%	74	(26)	31																						
	Pj	C-P	567	416	-	-	93.93	-	13.30	-	-	-	-	13.3	37.0	17.0	54.0	6.1	43.8	49.9	202.2	-	8.8	-	37	17	-	-	5.32%	(32)	97	22																						
	SDG	C-SB	130	51	-	-	6.38	-	13.47	-	-	-	-	13.5	14.2	37.9	52.1	21.4	21.9	43.3	-	3.2	-	17	14	38	-	-	32.62%	(35)	28	(29)																						
	SBFM	C-SBFM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-	-	-	-	0.00%	-	-	-																						
	X	No Strata	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	32	32	-	-	-	100.00%	32	(32)	-																						
Note:					* Deletions and Deferrals to be provided in shapefile format for next FMP										The following operating plans contribute to this variance calculation:																																							
					* Values may be affected by rounding																																																	
															Licence										Working Area										Operating Year										Comments									
															CTL507J001										68-26-4										2016 - 2017										Harvesting is completed. SHS has been moved over to as builts									
															CTL507J001										68-25-4										2016 - 2017										Harvesting is completed. SHS has been moved over to as builts									
															CTL507J001										67-25-4										2018 -										Timber harvesting started in the 2018 - 2019 operating year and operations are ongoing in the working area. SHS will be moved over at the completion of all operations in the working area.									
															CTL507J001										68254										2020-2021										This is a new FHP planned for 2020-2021 operations.									

Al-Pac FMA Area – Forest Stewardship Report 2015–2020

Northland Forest Products

FMUs – A14 / A15 / L03 / L01 / L08

➤ **Approved FMP SHS Variance Assessment**

- By FMU compartment (see Appendix A)

➤ **AAC Review**

- The planned volumes are based on AOP forecasts.

A15	Year	Conifer Volume Projected (m3/ha)	Conifer Volume Delivered (m3/ha)	Area Hectares
	2015-16	160	167	576
	2016-17	152	180	143
	2017-18			
	2018-19			
	2019-20	163	165	80
		158	171	799
A14	Year	Conifer Volume Projected (m3/ha)	Conifer Volume Delivered (m3/ha)	Area Hectares
	2015-16	150	175	456
	2016-17	148	173	422
	2017-18	142	190	360
	2018-19	155	165	432
	2019-20	160	170	503
		151	175	2,173
L03	Year	Conifer Volume Projected (m3/ha)	Conifer Volume Delivered (m3/ha)	Area Hectares
	2015-16			
	2016-17			
	2017-18	180	181	723
	2018-19	129	175	152
	2019-20	150	181	222
		153	179	1,097
L01	Year	Conifer Volume Projected (m3/ha)	Conifer Volume Delivered (m3/ha)	Area Hectares
	2015-16			
	2016-17			
	2017-18	142	159	359
	2018-19	129	151	403
	2019-20	155	165	91
		142	158	853
L08	Year	Conifer Volume Projected (m3/ha)	Conifer Volume Delivered (m3/ha)	Area Hectares
	2015-16			0
	2016-17			0
	2017-18			0
	2018-19			0
	2019-20			0
	Total			0

➤ **Growth and Yield Maintenance Program**

- n/a

➤ **Seed Availability and Usage**

Northland Forest Products (NLF)																
	Seed inventory (kg)	# of sdls produced with current inventory	Area planted with current inventory* (ha)	Area to be cut in next 10 yrs (ha)	Minium Density	Seedling required	Seed required for next 10 yrs(kg)	Short fall wildseed next 10 yrs (KG)		seed from Region E1 (kg)	seed from Region E (kg)	total short fall				
White Spruce																
AP1.1	0	0	0	113	1400	158,200	1.2	-1.2		1.20		-0.02				
CM2.1	28.70	3,723,145	2,659	0	1400	0	0.0	28.7				28.70				
CM2.2	10.10	1,310,236	936	3,184	1400	4,457,600	34.4	-24.3		24.30		0.04				
CM2.4	0	0	0	5,092	1400	7,128,800	55.0	-55.0		37.19	17.8	0.04				
CM3.1	1.57	203,670	145	2,237	1400	3,131,800	24.1	-22.6		3.80	18.9	0.13				
LBH1.3	4.88	633,064	452	159	1400	222,600	1.7	3.2				3.16				
LBH1.5	5	648,632	463	2,405	1400	3,367,000	26.0	-21.0		0.40	2.76	-17.79				
LF1.1	0	0	0	0	1400	0	0.0	0.0				0.00				
UBH1.1	0	0	0	0	1400	0	0.0	0.0				0.00			Species	# sdlg/kg
E	15.00	1,945,895	1,390	0	1400	0	0.0	15.0			-39.46	-24.46			PL/PJ	115,089
E1	143.00	#####	13,251	0	1400	0	0.0	143.0		-67		76.11			SB	299,110
D1	0.35	45,404	32	0	1400	0	0.0	0.4				0.35			SW	129,726
Pine																
										P1 (kg)						
AP1.1	13.59	1,564,062	1,117	1,399	1400	1,958,600	17.0	-3.4				-3.43				
CM1.2	13.2	1,519,177	1,085	0	1400	0	0.0	13.2				13.20			Amount of genetic seed to offset wild	
CM2.1	7.2	828,642	592	0	1400	0	0.0	7.2				7.20				
CM2.2	0.6	69,053	49	1,041	1400	1,457,400	12.7	-12.1		12.70		0.64				
CM2.4	18.9	2,175,185	1,554	467	1400	653,800	5.7	13.2				13.22				
CM3.1	18.4	2,117,641	1,513	1,378	1400	1,929,200	16.8	1.6				1.64				
LBH1.5	12.297	1,415,251	1,011	1,711	1400	2,395,400	20.8	-8.5				-8.52				
LF1.1	0.7	80,562	58	0	1400	0	0.0	0.7				0.70				
P1	23.5	2,704,595	1,932	0	1400	0	0.0	23.5		-12.7		10.80				
Black Spruce																
										L3 (kg)						
CM2.2	0	0	0	44	1400	61,600	0.2	-0.2		0.20		-0.01				
CM2.4	1.67	499,514	357	457	1400	639,800	2.1	-0.5		0.50		0.03				
CM3.1	0.22	65,804	47	235	1400	329,000	1.1	-0.9		0.83		-0.05				
LBH1.5	6.15	1,839,526	1,314	1,666	1400	2,332,400	7.8	-1.6		0.26		-1.39				
L3	0	0	0	0	1400	0	0.0	0.0		-1.79		-1.79				

➤ **VOIT 7 – Wildfire Salvage**

- See Al-Pac VOIT 7 metrics – Horse River Wildfire 2016

➤ **VOIT 8 – Blowdown Salvage (hectares)**

- See Al-Pac VOIT 8 metrics – L1 and L8 events 2017

➤ **VOIT 10 – Stand Structure**

A14	Year	Area Harvested (ha)	Retention Area (ha)	Percent Retention (%)
	2015-16	456.3	21.9	4.8
	2016-17	422.5	5.9	1.4
	2017-18	724.6	21.9	3.0
	2018-19	432.8	3.0	0.7
	2019-20	503.6	4.8	1.0
	Total	2,539.8	57.5	2.3
A15	Year	Area Harvested (ha)	Retention Area (ha)	Percent Retention (%)
	2015-16	1360.3	19.0	1.4
	2016-17	143.5	5.5	3.8
	2017-18	0.0	0.0	0.0
	2018-19	66.2	0.0	0.0
	2019-20	80.7	2.9	3.6
	Total	1,650.7	27.4	1.7
L3	Year	Area Harvested (ha)	Retention Area (ha)	Percent Retention (%)
	2015-16	0.0	0.0	0.0
	2016-17	0.0	0.0	0.0
	2017-18	723.4	48.4	6.7
	2018-19	152.6	7.3	4.8
	2019-20	222.5	1.4	0.6
	Total	1,098.5	57.1	5.2
L1	Year	Area Harvested (ha)	Retention Area (ha)	Percent Retention (%)
	2015-16	0.0	0.0	0.0
	2016-17	0.0	0.0	0.0
	2017-18	359.1	29.6	8.2
	2018-19	403.1	3.3	0.8
	2019-20	91.3	0.0	0.0
	Total	853.5	32.9	3.9

➤ **VOITs 9, 12, and 13 – OGR Compliance**

- There has been zero non-compliance related to these items.

➤ **VOITs 19 and 20 – Silviculture / RSA**

A14	Area Harvested (ha)	Area Planted (ha)	% Area Planted		Area LFN B/D (ha)	SMA (ha)	Area to be planted (ha)	Total Area Reforested (ha)	% Area reforested
2015-16	469.5	469.5	100.0%					469.5	100.00%
2016-17	425.9	425.9	100.0%					425.9	100.00%
2017-18	716.7	564.2	78.7%		153.3			717.5	100.11%
2018-19	420	386	91.9%		28.11		6	420.11	100.03%
2019-20	503.6	136.5	27.1%		60.2		307	503.7	100.02%
A15	Area Harvested (ha)	Area Planted (ha)	% Area Planted		Area LFN B/D (ha)	SMA (ha) Salvage	Area to be planted (ha)	Total Area treated (ha)	% Area reforested
2015-16	1360.4	231	17.0%		121.6	1007.8		1360.4	100.00%
2016-17	144.5	144.5	100.0%					144.5	100.00%
2017-18	-	-							
2018-19	66	0	0.0%			66		66	100.00%
2019-20	80.4		0.0%		4.5		76.3	80.8	100.50%
L01	Area Harvested (ha)	Area Planted (ha)	% Area Planted		Area LFN B/D (ha)	SMA (ha)	Area Planned plant (ha)	Total Area Reforested (ha)	% Area reforested
2015-16	-	-							
2016-17	-	-							
2017-18	326.19	100	30.7%		226.19			326.19	100.00%
2018-19	406.1	14.67	3.6%		394.43			409.1	100.74%
2019-20	91.5	0	0.0%		13.4		75.1	88.5	96.72%
L03	Area Harvested (ha)	Area Planted (ha)	% Area Planted		Area LFN B/D (ha)	SMA (ha)	Area to be planted (ha)	Total Area Reforested (ha)	% Area reforested
2015-16	-	-							
2016-17	-	-							
2017-18	757.7	738	97.4%		21.8			759.8	100.28%
2018-19	128.6	119	92.5%		11.1			130.1	101.17%
2019-20	212.9	28.8	13.5%		15.45		171.1	215.35	101.15%
A15/A14/ L03/L01	Year	Establishment Survey Area (ha)	Satisfactorily Regenerated Area (ha)	Percent Meeting SR Standards					
	2015-16	1618	1417	87.58%					
	2016-17	1578	1423	90.18%					
	2017-18	2484	2433.2	97.95%					
	2018-19	1711	1711	100.00%					
	2019-20	1614	1614	100.00%					
	Total	9005	8598.2	95.48%					

➤ **VOIT 23 – Non-Invasive Species**

- Zero hectares of invasive / non-native plant species have been found.

➤ **VOITs 24, 25, and 27 – OGR Compliance**

- There has been zero non-compliance related to these items.

Appendix A. SHS Variance Tables

SH SHS Tracking between 2015 and 2025 (timber year)																																	
PD 1, Year 1-10																																	
Complement	Harvest Profile						Planned for Harvest (ha)										Actuals						Combined As-Built & Planned			Unplanned							
	Company Specific Yield Strata	Provincial Yield Strata	Approved SHS 10 Year SHS	Operator Approved NMP 10 Year SHS	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	Variance				Additions	Deletions & Deferrals	Total	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	SHS Assessment (Excluding Silvers)											
										Substantial												Variance (Excluding Silvers)											
										Additions	Deletions	Deferrals	Total									Substantial	SHS Assessment (Excluding Silvers)										
114-B	All	All	1,091	707	155	81	27	213	58	100	100	58	100	100	58	100	100	58	100	100	58	64	64	64	64	64							
	Aw/AwU	D	257	159	155	81	27	213	58	100	100	58	100	100	58	100	100	58	100	100	58	64	64	64	64	64							
	PJMK	DC-P	5	5	4.43	5	4.43	4.43	4.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
	Aw/Sx	DC-S	12	12	12.87	12.87	12.87	12.87	12.87	12.87	12.87	12.87	12.87	12.87	12.87	12.87	12.87	12.87	12.87	12.87	12.87	12.87	12.87	12.87	12.87	12.87							
	Sx/Sw	CD-SW	56	56	33.31	33.31	33.31	33.31	33.31	33.31	33.31	33.31	33.31	33.31	33.31	33.31	33.31	33.31	33.31	33.31	33.31	33.31	33.31	33.31	33.31	33.31							
	PJMK	CD-P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
	Sx/Sw	CD-SB	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
	Sw	C-SW	387	287	52.10	5.04	57.14	5.0	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6							
	PJ	C-P	94	94	53.87	4.27	0.03	58.17	4.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2							
	SBG	C-SB	278	271	11.00	5.81	18.41	35.21	24.2	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8							
	SBFM	C-SBFM	-	-	7.44	-	-	7.44	7.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
	X	NoStrata	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Note: * Deletions and Deferrals to be provided in shapelite format for next FMP Values may be affected by rounding																																	
SH SHS Tracking between 2015 and 2025 (timber year)																																	
PD 1, Year 1-10																																	
Complement	Harvest Profile						Planned for Harvest (ha)										Actuals						Combined As-Built & Planned			Unplanned							
	Company Specific Yield Strata	Provincial Yield Strata	Approved SHS 10 Year SHS	Operator Approved NMP 10 Year SHS	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	Variance				Additions	Deletions & Deferrals	Total	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	SHS Assessment (Excluding Silvers)											
										Substantial												Variance (Excluding Silvers)											
										Additions	Deletions	Deferrals	Total									Substantial	SHS Assessment (Excluding Silvers)										
114-A	All	All	5,799	2,228	190	2	2	192	2	5	5	2	5	13	2	26	28	2	5	10	10	2	10	10	10	10							
	Aw/AwU	D	3,375	1,228	190	2	2	192	2	5	5	2	5	13	2	26	28	2	5	10	10	2	10	10	10	10							
	PJMK	DC-P	215	18	16.66	2.05	18.71	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	Aw/Sx	DC-S	222	18	16.66	2.05	18.71	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	Sx/Sw	CD-SW	250	6	5.79	-	5.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	PJMK	CD-P	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	Sx/Sw	CD-SB	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	Sw	C-SW	854	204	167.13	-	167.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	PJ	C-P	724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	SBG	C-SB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	SBFM	C-SBFM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	X	NoStrata	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Note: * Deletions and Deferrals to be provided in shapelite format for next FMP Values may be affected by rounding																																	
SH SHS Tracking between 2015 and 2025 (timber year)																																	
PD 1, Year 1-10																																	
Complement	Harvest Profile						Planned for Harvest (ha)										Actuals						Combined As-Built & Planned			Unplanned							
	Company Specific Yield Strata	Provincial Yield Strata	Approved SHS 10 Year SHS	Operator Approved NMP 10 Year SHS	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	Variance				Additions	Deletions & Deferrals	Total	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	SHS Assessment (Excluding Silvers)											
										Substantial												Variance (Excluding Silvers)											
										Additions	Deletions	Deferrals	Total									Substantial	SHS Assessment (Excluding Silvers)										
114-B	All	All	1,898	1,898	372	167	32	160	731	360	276	93	369	83	116	199	199	360	276	93	369	83	116	199	369	83							
	Aw/AwU	D	-	56	16.51	10.41	0.06	10.47	10.5	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-							
	PJMK	DC-P	-	56	16.51	10.41	0.06	10.47	10.5	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-								
	Aw/Sx	DC-S	-	4	-	3.03	-	3.03	3.0	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-								
	Sx/Sw	CD-SW	-	4	-	3.03	-	3.03	3.0	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-								
	PJMK	CD-P	139	139	52.00	2.78	0.00	54.78	2.8	17.6	20.3	37.9	2.4	18.9	21.4	-	-	3	-	-	-	-	-	-	-								
	Sx/Sw	CD-SB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-								
	Sw	C-SW	109	109	4.89	-	-	4.89	4.7	-	-	15.2	-	-	-	-	-	5	-	-	-	-	-	-	-								
	PJ	C-P	1,591	1,591	303.29	164.6	13.904	160.07	641.88	338.6	251.6	53.1	304.8	60.9	89.7	150.6	150.6	339	252	53	345	61	89	150	150								
	SBG	C-SB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	SBFM	C-SBFM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	X	NoStrata	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Note: * Deletions and Deferrals to be provided in shapelite format for next FMP Values may be affected by rounding Planning Units submitted with this variance calculation: Fort Hills (9908, 9909)																																	

SR SHS Tracking between 2015 and 2025 (timber year)																											
PD 1, Year 1-10																											
Harvest Profile					Planned for Harvest (ha)										Actuals					Combined As-Built & Planned					Unplanned SHS in Compliance		
Component	Company Specific Yield Strata	Provincial Yield Strata	Approved DPA 10 Year SHS	Operative DPA 10 Year SHS	SHS 1-10yr	SHS 11-20yr	Contributing Parallel SHS	Non-Contributing Landbase	Total	Variance				Harvested (ha)				SHS Assessment (Excluding Silvers)			Variance			SHS Assessment (Excluding Silvers)			
										Substantial			Slivers	Harvested (ha)				SHS Assessment (Excluding Silvers)			Substantial			SHS Assessment (Excluding Silvers)			
										Additions	Deletions	Deferrals		Total	Additions	Deletions & Deferrals	Total	SHS Variance (Addition %)	Difference in Area (Subst. Add. - DMD)	Difference in Area (Total Harvested)	Additions	Deletions	Deferrals	SHS Variance (Addition %)		Difference in Area (Subst. Add. - DMD)	Difference in Area (Total Harvested)
ATA-R	All	All	8,309	#VALUE!	231	-	110	3	344	113	30	-	30	25	40	65	#VALUE!	83	#VALUE!	113	30	-	#VALUE!	83	#VALUE!	Unplanned SHS in Compliance	
	Aw/AwU	D	5,755	-	-	-	-	-	-	-	0	-	-	7,563,574,666	0	7.6	0.00%	-	-	-	-	0.00%	-	-	-	-	
	PjMX	DC-P	23	-	-	-	-	-	-	-	0	-	-	0	0	-	0.00%	-	-	-	-	0.00%	-	-	-	-	
	AwSt	DC-S	136	136	3.77	-	109.95	3,245,430,033	116.96	113.2	0	-	-	14,817,075,47	0.714820828	15.5	83.03%	113	(136)	113	-	-	83.03%	113	15	132	
	Sckw	CD-SW	580	545	76.54	-	-	0	76.54	-	5,663,766,883	-	5.7	0,590,148,473	7,081,073,435	7.7	0.00%	(6)	(545)	-	6	-	0.00%	(6)	468	455	
	PjMx	CD-P	4	-	-	-	-	0	-	-	0	-	-	0	0	-	0.00%	-	-	-	-	0.00%	-	-	-	-	
	Sckw	CD-SB	-	-	-	-	-	0	-	-	0	-	-	0	0	-	0.00%	-	-	-	-	0.00%	-	-	-	-	
	Sw	C-SW	1,664	1,427	150.92	-	-	0	150.92	-	24,076,050,99	-	24.1	0,220,540,086	32,232,175,44	32.5	0.00%	(24)	(1,427)	24	-	-	0.00%	(24)	1,276	(1,228)	
	Pj	C-P	47	17	-	-	-	0	-	-	0	-	-	0	0	-	0.00%	-	-	-	-	0.00%	-	-	17	17	
	SHG	C-SB	-	-	-	-	-	0	-	-	0	-	-	1,313,050,206	0	1.3	0.00%	-	-	-	-	0.00%	-	-	-	-	
	SHFM	C-SHFM	-	#VALUE!	-	-	-	0	-	-	0	-	-	0	0	-	#VALUE!	-	#VALUE!	-	-	#VALUE!	-	#VALUE!	-	-	
	X	NoStrata	-	#VALUE!	-	-	-	-	-	-	0,092,779,867	-	0.1	-	-	-	#VALUE!	-	#VALUE!	-	-	#VALUE!	-	#VALUE!	-	-	
Note: * Deletions and Deferrals to be provided in shapfile format for next FMP Values may be affected by rounding																											
Planning Units subsumed with this variance Calculation:										98124																	
SR SHS Tracking between 2015 and 2025 (timber year)																											
PD 1, Year 1-10																											
Harvest Profile					Planned for Harvest (ha)										Actuals					Combined As-Built & Planned					Unplanned SHS in Compliance		
Component	Company Specific Yield Strata	Provincial Yield Strata	Approved DPA 10 Year SHS	Operative DPA 10 Year SHS	SHS 1-10yr	SHS 11-20yr	Contributing Parallel SHS	Non-Contributing Landbase	Total	Variance				Harvested (ha)				SHS Assessment (Excluding Silvers)			Variance			SHS Assessment (Excluding Silvers)			
										Substantial			Slivers	Harvested (ha)				SHS Assessment (Excluding Silvers)			Substantial			SHS Assessment (Excluding Silvers)			
										Additions	Deletions	Deferrals		Total	Additions	Deletions & Deferrals	Total	SHS Variance (Addition %)	Difference in Area (Subst. Add. - DMD)	Difference in Area (Total Harvested)	Additions	Deletions	Deferrals	SHS Variance (Addition %)		Difference in Area (Subst. Add. - DMD)	Difference in Area (Total Harvested)
ATA-R	All	All	9,389	#VALUE!	878	10	209	83	1,090	152	389	-	389	127	171	298	#VALUE!	(237)	#VALUE!	152	389	-	#VALUE!	(237)	#VALUE!	Unplanned SHS in Compliance	
	Aw/AwU	D	2,723	14	-	-	7.29	-	7.29	7.3	-	-	-	4,302,064,672	6.3	-	52.36%	7	(14)	7	-	-	52.36%	7	-	14	
	PjMX	DC-P	146	-	109.01	-	-	16.81	125.81	16.8	-	-	-	2,409,910,556	10,697,167,26	13.4	11.47%	17	(146)	17	-	-	11.47%	17	21	27	
	AwSt	DC-S	670	421	89.43	1.18	7.80	96.42	9.0	19,018,593,66	19.0	15,329,971,03	12,124,746,65	27.5	-	2.09%	(10)	(421)	9	19	-	2.09%	(10)	332	319		
	Sckw	CD-SW	886	519	90.77	0.08	3.01	93.87	3.1	14,400,838,59	14.4	15,561,578,41	15,651,62,497	19.2	-	0.60%	(11)	(519)	3	14	-	0.60%	(11)	425	396		
	PjMx	CD-P	66	61	35.27	-	3.15	38.41	3.1	2,824,750,459	2.8	0,030,522,399	12,609,046,63	12.6	-	5.13%	0	(61)	3	3	-	5.13%	0	23	11		
	Sckw	CD-SB	53	33	7.16	1.16	-	8.32	8.4	8,018,500,45	8.0	0,147,806,629	1,887,681,586	2.0	-	3.52%	(7)	(33)	1	8	-	3.52%	(7)	25	16		
	Sw	C-SW	2,674	1,987	280.98	-	6.88	287.86	6.9	136,810,7723	136.8	9,056,624,048	54,503,983,64	63.6	-	0.35%	(130)	(1,987)	7	137	-	0.35%	(130)	1,699	1,513		
	Pj	C-P	622	430	146.90	-	-	20,713,292,98	167.61	20,713,292,98	103.0	38,900,722,991	21,869,940,906	30.8	-	4.82%	(82)	(430)	21	103	-	4.82%	(82)	262	158		
	SHG	C-SB	1,325	1,117	118.79	7.40	46.87	12,650,977,9	185.72	66.9	105,148,622,9	105.1	38,948,801,21	41,825,139,99	100.8	-	5.99%	(38)	(1,117)	67	105	-	5.99%	(38)	931	851	
	SHFM	C-SHFM	-	#VALUE!	-	-	-	16.84	16.8	-	-	-	-	14,541,215,83	14.5	-	0.00%	17	-	-	-	0.00%	17	-	-	-	
	X	NoStrata	-	#VALUE!	-	0.00	-	0.00	0.0	-	-	-	-	7,026,129,003	7.0	-	0.00%	0	-	-	-	0.00%	0	-	-	-	
Note: * Deletions and Deferrals to be provided in shapfile format for next FMP Values may be affected by rounding																											
Planning Units subsumed with this variance Calculation:										77154, 76184																	
SR SHS Tracking between 2015 and 2025 (timber year)																											
PD 1, Year 1-10																											
Harvest Profile					Planned for Harvest (ha)										Actuals					Combined As-Built & Planned					Unplanned SHS in Compliance		
Component	Company Specific Yield Strata	Provincial Yield Strata	Approved DPA 10 Year SHS	Operative DPA 10 Year SHS	SHS 1-10yr	SHS 11-20yr	Contributing Parallel SHS	Non-Contributing Landbase	Total	Variance				Harvested (ha)				SHS Assessment (Excluding Silvers)			Variance			SHS Assessment (Excluding Silvers)			
										Substantial			Slivers	Harvested (ha)				SHS Assessment (Excluding Silvers)			Substantial			SHS Assessment (Excluding Silvers)			
										Additions	Deletions	Deferrals		Total	Additions	Deletions & Deferrals	Total	SHS Variance (Addition %)	Difference in Area (Subst. Add. - DMD)	Difference in Area (Total Harvested)	Additions	Deletions	Deferrals	SHS Variance (Addition %)		Difference in Area (Subst. Add. - DMD)	Difference in Area (Total Harvested)
ATA-R	All	All	2,511	1,988	408	-	226	75	799	301	301	2	303	68	119	187	15.14%	(2)	(1,988)	301	301	2	15.14%	(2)	1,513	1,061	
	Aw/AwU	D	524	1	-	-	3.00	5.70	8.69	8.7	-	-	-	4.6	-	4.6	670.37%	9	(1)	9	-	-	670.37%	9	(7)	1	
	PjMX	DC-P	49	49	24.82	-	7.17	0.56	32.54	7.7	7.4	-	7.4	1.6	9.2	10.7	15.73%	0	(49)	8	7	-	15.73%	0	17	8	
	AwSt	DC-S	249	249	65.81	-	0.44	23.80	90.04	24.2	75.3	-	75.3	4.3	16.0	20.3	9.73%	(51)	(249)	24	53	-	9.73%	(51)	159	92	
	Sckw	CD-SW	242	242	86.13	-	0.12	5.35	91.60	5.5	51.8	-	51.8	0.2	11.5	11.7	2.26%	(46)	(242)	5	52	-	2.26%	(46)	150	92	
	PjMx	CD-P	65	65	17.45	-	7.92	0.04	25.41	8.0	4.4	2.4	6.9	2.3	3.8	6.1	12.23%	1	(65)	8	4	2	12.23%	1	40	17	
	Sckw	CD-SB	13	13	2.60	-	3.93	-	6.52	3.9	9.0	-	9.0	-	1.6	1.6	29.64%	(5)	(13)	4	9	-	29.64%	(5)	7	0	
	Sw	C-SW	277	277	98.18	-	1.52	6.14	105.85	7.7	53.3	-	53.3	2.4	30.6	33.0	2.76%	(46)	(277)	8	53	-	2.76%	(46)	172	85	
	Pj	C-P	748	748	173.10	-	53.46	6.73	233.29	60.2	79.6	-	79.6	9.6	28.5	38.1	8.05%	(19)	(748)	60	80	-	8.05%	(19)	514	467	
	SHG	C-SB	343	343	30.20	-	16.78	23.64	70.61	40.4	20.1	-	20.1	11.4	18.2	29.7	11.77%	20	(343)	40	20	273	11.77%	20	273	275	
	SHFM	C-SHFM	-	-	-	-	-	131.56	131.56	-	-	-	-	25.3	-	25.3	0.00%	132	-	132	-	-	0.00%	132	(132)	-	
	X	NoStrata	-	-	-	-	0.32	2.90	3.22	3.2	-	-	-	6.0	-	6.0	0.00%	3	-	3	-	-	0.00%	3	(3)	-	
Note: * Deletions and Deferrals to be provided in shapfile format for next FMP Values may be affected by rounding																											

Al-Pac FMA Area – Forest Stewardship Report 2015–2020

Vanderwell Contractors

FMUs – S22 / S18 / L2

➤ Approved FMP SHS Variance Assessment

- Please see attached Appendix with Variance tables for:
 - L02-A
 - L02-B
 - S18-A
 - S22-D
 - S22-E

➤ AAC Review

- See Table 1. Vanderwell AAC Review below
- *Note:* Planned volumes are based on GDP forecasts.

Table 1. AAC Review

L2	Year	Conifer Volume Projected (m3/ha)	Conifer Volume Delivered (m3/ha)
	2015-16	0	0
	2016-17	148	150
	2017-18	142	134
	2018-19	129	128
	2019-20	0	0
	Total	139	138
S18	Year	Conifer Volume Projected (m3/ha)	Conifer Volume Delivered (m3/ha)
	2015-16	0	0
	2016-17	0	0
	2017-18	0	0
	2018-19	0	0
	2019-20	0	0
	Total	0	0
S22	Year	Conifer Volume Projected (m3/ha)	Conifer Volume Delivered (m3/ha)
	2015-16	145	150
	2016-17	0	0
	2017-18	115	94
	2018-19	0	0
	2019-20	0	0
	Total	130	122

➤ **Growth and Yield Maintenance Program**

- Zero PSP plots have been established to date.

➤ **Seed Availability and Usage**

Table 2. Vanderwell Seed Availability

Operator	Base 10 Strata	Species	Seed Zone	Current Inventory (kg)	Number of seedlings that could be planted with current inventory	Area that could be planted with current inventory (ha)	10 year Spatial Harvest Sequence (ha)	Minimum density (sph)	Seedlings Required	Seed required for next 10 yrs (kg)	Seed collection required for next 10 yrs (kg)
VAND	PI/PIHW/HWPI	PL/PJ	CM 2.4	13.36	1,033,930	862	195	1,200	234,000	3.02	(10.34)
			CM 3.2	17.14	1,326,232	1,105	46	1,200	55,200	0.71	(16.42)
			LF 1.1	97.28	7,528,731	6,274	15	1,200	18,000	0.23	(97.05)
			LF 1.3	93.19	7,211,665	6,010		1,200	0	-	(93.19)
			UF 1.1	12.11	937,270	781		1,200	0	-	(12.11)
			CM3.1	42.94	3,323,281	2,769		1,200	0	-	(42.94)
			LBH1.5	30.16	2,333,773	1,945		1,200	0	-	(30.16)
			LBH1.3	0.00	0	0	39	1,200	46,800	0.39	0.39
			UBH1.1	0.00	0	0	39	1,200	46,800	0.39	0.39
			CM2.2	0.00	0	0	142	1,200	170,400	1.44	1.44
			CM3.3	2.24	173,121	144	17	1,200	20,400	0.26	(1.97)
	SW/SWHW/HWSX	SW	CM 2.4	1204.66	143,028,552	119,190	1,332	1,200	1,598,400	13.46	(1,191.20)
			CM2.2	0.00	0	0	968	1,200	1,161,600	9.78	9.78
			CM 3.2	635.97	75,508,438	62,924	311	1,200	373,200	3.14	(632.83)
			CM 3.3	451.75	53,635,588	44,696	115	1,200	138,000	1.16	(450.59)
			LF 1.1	47.78	5,673,347	4,728	104	1,200	124,800	1.05	(46.73)
			LF 1.3	107.23	12,731,548	10,610		1,200	0	-	(107.23)
			UF 1.1	0.00	0	0		1,200	0	-	-
			Region D1	9.50	1,127,451	940		1,200	0	-	(9.50)
			CM2.3	349.30	41,471,565	34,560		1,200	0	-	(349.30)
			CM3.1	23.38	2,775,647	2,313		1,200	0	-	(23.38)
			DM1.3	28.84	3,424,263	2,854		1,200	0	-	(28.84)
			UBH1.1	0.00	0	0	265	1,200	318,000	2.68	2.68
			LBH1.3	16.30	1,935,283	1,613	265	1,200	318,000	2.68	(13.62)
	SB/SBHW	SB	CM 2.4	0.60	150,000	125	195	1,200	234,000	0.94	0.34
			CM 3.2	4.50	1,126,000	938	46	1,200	55,200	0.22	(4.28)
			LF 1.1	18.07	4,517,500	3,765	15	1,200	18,000	0.07	(18.00)
			LF 1.3	18.49	4,622,350	3,852		1,200	0	-	(18.49)
			UF 1.1	0.00	0	0		1,200	0	-	-
			CM2.2	0.37	93,500	78	142	1,200	170,400	2.20	1.83
			CM3.3	0.12	29,500	25	17	1,200	20,400	0.26	0.15
			UBH1.1	0.00	0	0	39	1,200	46,800	0.39	0.39
			LBH1.3	0.10	25,000	21	39	1,200	46,800	0.60	0.50

➤ **VOIT 7 – Wildfire Salvage**

- n/a – No fire salvage in the reporting period

➤ **VOIT 8 – Blowdown Salvage**

- n/a – No blowdown events to report

➤ **VOIT 10****Table 3. Vanderwell Retention Summary**

L2	Year	Area Harvested (ha)	Retention Area (ha)	Percent Retention (%)
	2015-16	0.0	0.0	0.0
	2016-17	222.7	0.8	0.3
	2017-18	701.0	18.9	2.7
	2018-19	112.8	1.6	1.4
	2019-20	0.0	0.0	0.0
	Total	1,036.5	21.3	2.1
S18	Year	Area Harvested (ha)	Retention Area (ha)	Percent Retention (%)
	2015-16	0.0	0.0	0.0
	2016-17	0.0	0.0	0.0
	2017-18	0.0	0.0	0.0
	2018-19	0.0	0.0	0.0
	2019-20	0.0	0.0	0.0
	Total	0.0	0.0	0.0
S22	Year	Area Harvested (ha)	Retention Area (ha)	Percent Retention (%)
	2015-16	96.2	0.6	0.6
	2016-17	0.0	0.0	0.0
	2017-18	209.1	1.1	0.5
	2018-19	0.0	0.0	0.0
	2019-20	0.0	0.0	0.0
	Total	305.3	1.7	0.6

➤ **VOITs 9, 12, and 13 – OGR Compliance**

- There has been zero non-compliance related to these items.

➤ **VOITs 19 and 20 – Silviculture / RSA****Table 4. Vanderwell Conifer Reforestation Program**

L2	Year	Area Harvested (ha)	Area Planted (ha)	Percent Planted
	2015-16	-	-	-
	2016-17	223	214.4	96%
	2017-18	701	613.1	87%
	2018-19	107	102.5	96%
	2019-20	-	-	-
	Total	1,031	930	93%
S18	Year	Area Harvested (ha)	Area Planted (ha)	Percent Planted
	2015-16	-	-	-
	2016-17	-	-	-
	2017-18	-	-	-
	2018-19	-	-	-
	2019-20	-	-	-
	Total	-	-	-
S22	Year	Area Harvested (ha)	Area Planted (ha)	Percent Planted
	2015-16	96	61.2	64%
	2016-17	-	-	-
	2017-18	209	168.4	81%
	2018-19	-	-	-
	2019-20	-	-	-
	Total	304.68	230	72%

Table 5. Conifer Reforestation Monitoring Program

L2/S18/ S22	Year	Establishment Survey Area (ha)	Satisfactorily Regenerated Area (ha)	Percent Meeting SR Standards
	2015-16	275.6	275.6	100.00%
	2016-17	200.5	167.4	83.49%
	2017-18	526.7	526.7	100.00%
	2018-19	1535.6	1535.6	100.00%
	2019-20	0	0	0.00%
	Total	2538.4	2505.3	98.70%

➤ **VOIT 23 – Non-Invasive Species**

- Zero hectares of invasive / non-native plant species have been found.

➤ **VOITs 24, 25, and 27 – OGR Compliance**

- There has been zero non-compliance related to these items.

Appendix C. SHS Variance

SR SHS Tracking between 2015 and 2025 (timber year)										Vanderwell																																																		
PD 1, Year 1-10																																																												
Harvest Profile										Planned for Harvest (ha)										Asbuilts										Combined As-Built & Planned										Unplanned																				
										Variance										Harvested (ha)										SHS Assessment (Excluding Silvers)											Variance Substantial										SHS Assessment (Excluding Silvers)									
Compartment	Company Specific Yield Strata	Provincial Yield Strata	Approved DFA 10 Year SHS	Operator Approved FMP 10 Year SHS	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	Additions	Deletions	Deferrals	Total	Additions	Deletions & Deferrals	Total	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)	Difference in Area Total Harvested - 10yr FMP SHS	Additions	Deletions	Deferrals	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)	Remaining Available Area (SHS & Non-SHS)																														
L02-A	All	All	347	347	-	-	-	-	-	-	4	-	4	4	8	13	27	-	-	-	-	27	0.00%	(4)	(320)	-	2	-	0.00%	(2)	347	307																												
	Aw/AwU	D	-	-	-	-	-	-	-	-	-	-	-	1.6	-	1.6	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-																													
	PjMX	DC-P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-																													
	AwSx	DC-S	74	74	-	-	-	-	-	-	-	-	-	0.6	2.8	3.4	20.2	-	-	-	-	20.2	0.00%	-	(54)	-	-	0.00%	-	54	51																													
	SxAw	CD-SW	43	43	-	-	-	-	-	-	-	-	-	0.6	0.1	0.6	1.2	-	-	-	-	1.2	0.00%	-	(41)	-	-	0.00%	-	41	41																													
	PjMx	CD-P	-	-	-	-	-	-	-	-	-	-	-	0.2	-	0.2	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-																													
	SxAw	CD-SB	13	13	-	-	-	-	-	2.1	-	2.1	0.0	0.9	0.9	2.0	0.9	2.0	-	-	-	2.0	0.00%	(2)	(11)	-	2	0.00%	(2)	11	8																													
	Sw	C-SW	150	150	-	-	-	-	-	-	-	-	-	0.0	1.3	1.4	0.4	-	-	-	-	0.4	0.00%	-	(149)	-	-	0.00%	-	149	148																													
	Pj	C-P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-																													
	SbG	C-SB	68	68	-	-	-	-	-	2.2	-	2.2	0.4	3.4	3.9	3.1	3.1	-	-	-	-	3.1	0.00%	(2)	(65)	-	2	0.00%	(2)	65	59																													
	SBFM	C-SBFM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-																													
	X	NoStrata	-	-	-	-	-	-	-	-	-	-	-	0.6	-	0.6	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-																													
Note:										* Deletions and Deferrals to be provided in shapefile format for next FMP Values may be affected by rounding																																																		

SR SHS Tracking between 2015 and 2025 (timber year)										Vanderwell																																																		
PD 1, Year 1-10																																																												
Harvest Profile										Planned for Harvest (ha)										Asbuilts										Combined As-Built & Planned										Unplanned																				
										Variance										Harvested (ha)										SHS Assessment (Excluding Silvers)											Variance Substantial										SHS Assessment (Excluding Silvers)									
Compartment	Company Specific Yield Strata	Provincial Yield Strata	Approved DFA 10 Year SHS	Operator Approved FMP 10 Year SHS	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	Additions	Deletions	Deferrals	Total	Additions	Deletions & Deferrals	Total	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)	Difference in Area Total Harvested - 10yr FMP SHS	Additions	Deletions	Deferrals	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)	Remaining Available Area (SHS & Non-SHS)																														
L02-B	All	All	10,736	2,835	467	15	20	-	503	35	337	-	337	95	230	325	825	-	44	2	871	1.25%	(302)	(1,964)	81	269	-	2.87%	(187)	2,332	975																													
	Aw/AwU	D	6,836	-	-	-	18.33	-	18.33	18.3	-	-	-	52.4	-	52.4	-	-	-	-	-	0.00%	18	-	18	-	-	0.00%	18	(18)	-																													
	PjMX	DC-P	28	14	9.42	8.40	-	-	17.82	8.4	2.7	-	2.7	2.2	2.4	4.5	-	-	-	-	-	58.10%	6	(14)	8	3	-	58.10%	6	(3)	(0)																													
	AwSx	DC-S	712	678	125.83	3.38	-	-	129.22	3.4	54.6	-	54.6	3.4	52.5	55.8	230.3	-	9.9	-	-	240.2	0.50%	(51)	(438)	13	55	-	1.96%	(41)	308	215																												
	SxAw	CD-SW	805	707	73.76	-	-	-	73.76	93.0	2.4	53.5	56.0	235.5	-	9.9	-	-	-	-	-	235.5	0.00%	(93)	(472)	-	93	-	0.00%	(93)	398	251																												
	PjMx	CD-P	63	62	19.58	-	-	-	19.58	-	12.8	-	12.8	0.6	8.1	8.7	0.6	-	-	-	-	0.6	0.00%	(13)	(61)	-	13	-	0.00%	(13)	41	20																												
	SxAw	CD-SB	7	2	-	-	-	-	-	-	-	-	-	-	0.1	0.1	2.1	-	-	-	-	2.1	0.00%	-	(0)	-	-	0.00%	-	0	(0)																													
	Sw	C-SW	1,354	955	83.72	-	-	-	83.72	-	105.6	-	105.6	3.6	68.8	72.4	297.9	-	28.7	-	-	326.6	0.00%	(106)	(628)	29	106	-	3.00%	(77)	544	399																												
	Pj	C-P	569	268	143.15	3.34	2.01	-	148.50	5.4	24.3	-	24.3	6.8	33.6	40.4	40.2	-	-	-	-	40.2	2.00%	(19)	(228)	5	24	-	2.00%	(19)	79	27																												
	SbG	C-SB	361	149	12.04	-	-	-	12.04	-	44.2	-	44.2	18.5	10.9	29.4	18.9	-	5.0	2.4	-	26.3	0.00%	(44)	(123)	7	44	-	4.97%	(37)	111	63																												
	SBFM	C-SBFM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-																													
	X	NoStrata	-	-	-	-	-	-	-	-	-	-	-	5.2	-	5.2	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-																													
Note:										* Deletions and Deferrals to be provided in shapefile format for next FMP Values may be affected by rounding																																																		

SR SHS Tracking between 2015 and 2025 (timber year)										Vanderwell																					
PD 1, Year 1-10																															
Harvest Profile					Planned for Harvest (ha)										Asbults										Combined As-Built & Planned					Unplanned	
Compartment	Company Specific Yield Strata	Provincial Yield Strata	Approved DFA 10 Year SHS	Operator Approved FMP 10 Year SHS	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	Substantial				Variance		Slivers		Harvested (ha)					SHS Assessment (Excluding Slivers)		Variance Substantial		SHS Assessment (Excluding Slivers)				
										Additions	Deletions	Deferrals	Total	Additions	Deletions & Deferrals	Total	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)	Difference in Area Total Harvested - 10yr FMP SHS	Additions	Deletions	Deferrals	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)		Remaining Available Area (SHS & Non-SHS)
S18-A	All	All	12,363	1,096	231	58	-	-	289	58	70	-	70	63	41	103	-	-	-	-	-	5.32%	(12)	(1,096)	58	60	-	5.32%	(2)	807	754
	Aw/AwU	D	7,591	-	-	-	-	-	-	-	-	-	-	36.6	-	36.6	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-
	PjMX	DC-P	15	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	(3)	-	-	-	0.00%	-	3	3
	AwSx	DC-S	1,084	224	15.36	6.91	-	-	22.27	6.9	-	-	-	5.4	5.3	10.7	-	-	-	-	-	3.08%	7	(224)	7	-	-	3.08%	7	202	203
	SxAw	CD-SW	1,332	359	60.10	-	-	-	60.10	-	17.10991	-	17.1	1.9	7.9	9.8	-	-	-	-	-	0.00%	(17)	(359)	-	17	-	0.00%	(17)	299	274
	PjMx	CD-P	30	22	16.70	2.46	-	-	19.16	2.5	3.25899	-	3.3	0.1	1.8	1.9	-	-	-	-	-	11.31%	(1)	(22)	2	3	-	11.31%	(1)	3	0
	SxAw	CD-SB	32	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	(21)	-	-	-	0.00%	-	21	21
	Sw	C-SW	1,896	383	102.9	35.3	-	-	138.2	35.3	40.0	-	40.0	6.9	19.1	25.9	-	-	-	-	-	9.22%	(5)	(383)	35	40	-	9.22%	(5)	245	221
	Pj	C-P	100	15	4.07	11.5	-	-	15.52	11.5	-	-	-	1.7	0.6	2.3	-	-	-	-	-	76.45%	11	(15)	11	-	-	76.45%	11	(1)	10
	SbG	C-SB	282	69	31.63	2.19	-	-	33.83	2.2	9.6	-	9.6	9.1	5.9	15.0	-	-	-	-	-	3.18%	(7)	(69)	2	10	-	3.18%	(7)	35	22
	SBFM	C-SBFM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-
	X	NoStrata	-	-	-	-	-	-	-	-	-	-	-	1.1	-	1.1	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-
Note:				* Deletions and Deferrals to be provided in shapefile format for next FMP Values may be affected by rounding																											
SR SHS Tracking between 2015 and 2025 (timber year)										Vanderwell																					
PD 1, Year 1-10																															
Harvest Profile					Planned for Harvest (ha)										Asbults										Combined As-Built & Planned					Unplanned	
Compartment	Company Specific Yield Strata	Provincial Yield Strata	Approved DFA 10 Year SHS	Operator Approved FMP 10 Year SHS	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	Substantial				Variance		Slivers		Harvested (ha)					SHS Assessment (Excluding Slivers)		Variance Substantial		SHS Assessment (Excluding Slivers)				
										Additions	Deletions	Deferrals	Total	Additions	Deletions & Deferrals	Total	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)	Difference in Area Total Harvested - 10yr FMP SHS	Additions	Deletions	Deferrals	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)		Remaining Available Area (SHS & Non-SHS)
S22-D	All	All	15,779	2,275	498	-	9	2	509	12	49	-	49	51	64	115	-	-	-	-	-	0.51%	(38)	(2,275)	12	46	-	0.51%	(34)	1,766	1,665
	Aw/AwU	D	10,976	-	-	-	4.27	-	4.27	4.3	-	-	-	24.5	-	24.5	-	-	-	-	-	0.00%	4	-	4	-	-	0.00%	4	(4)	-
	PjMX	DC-P	82	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	(48)	-	-	-	0.00%	-	48	48
	AwSx	DC-S	1,045	-	-	-	-	-	-	-	-	-	-	11.3	-	11.3	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-
	SxAw	CD-SW	553	297	200.77	-	-	-	200.77	-	19.5	-	19.5	0.3	18.2	18.4	-	-	-	-	-	0.00%	(20)	(297)	-	20	-	0.00%	(20)	96	58
	PjMx	CD-P	67	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	(58)	-	-	-	0.00%	-	58	58
	SxAw	CD-SB	8	5	-	-	-	-	-	-	-	-	-	1.5	2.2	3.7	-	-	-	-	-	0.00%	-	(5)	-	-	-	0.00%	-	5	3
	Sw	C-SW	1,195	596	288.64	-	4.91	-	293.54	4.9	26.0	-	26.0	3.0	43.0	46.0	-	-	-	-	-	0.82%	(21)	(596)	5	26	-	0.82%	(21)	302	238
	Pj	C-P	1,751	1,254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	(1,254)	-	-	-	0.00%	-	1,254	1,254
	SbG	C-SB	102	17	8.11	-	-	2.38	10.49	2.4	3.7	-	3.7	10.3	0.7	10.9	-	-	-	-	-	13.75%	(1)	(17)	2	4	-	13.75%	(1)	7	5
	SBFM	C-SBFM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-
	X	NoStrata	-	-	-	-	-	-	-	-	-	-	-	0.6	-	0.6	-	-	-	-	-	0.00%	-	-	-	-	-	0.00%	-	-	-
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SR SHS Tracking between 2015 and 2025 (timber year)										Vanderwell																														
PD 1, Year 1-10																																								
Harvest Profile					Planned for Harvest (ha)										Asbuilts										Combined As-Built & Planned					Unplanned										
										Variance										SHS Assessment (Excluding Silvers)					Variance						SHS Assessment (Excluding Silvers)									
										Substantial					Silvers					Harvested (ha)											Substantial					SHS Assessment (Excluding Silvers)				
Compartment	Company Specific Yield Strata	Provincial Yield Strata	Approved DFA 10 Year SHS	Operator Approved FMP 10 Year SHS	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	Additions	Deletions	Deferrals	Total	Additions	Deletions & Deferrals	Total	SHS 1-10yr	SHS 11-20yr	Contributing Landbase Outside SHS	Non-Contributing Landbase	Total	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)	Difference in Area Total Harvested - 10yr FMP SHS	Additions	Deletions	Deferrals	SHS Variance (Additions %)	Difference in Area (Subst. Add. - D&D)		Remaining Available Area (SHS & Non-SHS)									
S22-E	All	All	4,205	1,177	483	5	-	-	488	5	91	159	251	60	91	151	-	-	-	-	-	0.43%	(245)	(1,177)	5	78	84	0.43%	(157)	689	352									
	Aw/AwU	D	2,425		-	-	-	-	-	-	-	-	-	34.89147	-	34.9	-	-	-	-	-	0.00%	-	-	-	-	-	-	0.00%	-	-	-								
	PjMX	DC-P	30	30	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	0.00%	-	(30)	-	-	-	-	0.00%	-	30	30								
	AwSx	DC-S	341		-	-	-	-	-	-	-	-	-	4.207555	-	4.2	-	-	-	-	-	0.00%	-	-	-	-	-	-	0.00%	-	-	-								
	SxAw	CD-SW	234	121	29.3	-	-	-	29.30	-	23.7	13.6	37.3	1.701496	13.6	15.3	-	-	-	-	-	0.00%	(37)	(121)	-	24	14	0.00%	(37)	92	41									
	PjMx	CD-P	40	16	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	0.00%	-	(16)	-	-	-	-	0.00%	-	16	16								
	SxAw	CD-SB	39	38	0.1	-	-	-	0.11	-	2.4	26.8	29.1	0.000397	1.5	1.5	-	-	-	-	-	0.00%	(29)	(38)	-	2	27	0.00%	(29)	38	7									
	Sw	C-SW	846	737	440.5	2.8	-	-	443.3	2.8	51.5	43.9	95.3	2.1	71.5	73.5	-	-	-	-	-	0.38%	(93)	(737)	3	51	44	0.38%	(93)	294	130									
	Pj	C-P	217	206	7.5	-	-	-	7.50	-	71.9		71.9	0.086287	2.1	2.2	-	-	-	-	-	0.00%	(72)	(206)	-	-	72	0.00%	(72)	199	125									
	SBG	C-SB	32	29	5.7	2.2	-	-	7.97	2.2	13.5	3.3	16.8	7.845038	2.0	9.9	-	-	-	-	-	7.74%	(15)	(29)	2	13	3	7.74%	(15)	21	4									
	SBFM	C-SBFM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00%	-	-	-	-	-	-	0.00%	-	-	-								
	X	NoStrata	-	-	-	-	-	-	-	-	-	-	-	9.4	-	9.4	-	-	-	-	-	0.00%	-	-	-	-	-	-	0.00%	-	-	-								
Note:										* Deletions and Deferrals to be provided in shapelfile format for next FMP																														
										Values may be affected by rounding																														