

Date: April 12, 2023

**P.E.I.
Public Forests**



Woodlot Management Plan

Property Number: 225458

Location: Brookvale

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Goals and Management Objectives

Forest Management on Prince Edward Island (P.E.I.) means different things to different people. Public Forest Lands are managed for a variety of reasons including timber and non-timber values, wildlife enhancement, soil and water preservation, demonstration techniques, training and recreation and aesthetics.

The primary goal for management of P.E.I. Public Forest Land is to enhance the overall forest quality. To accomplish this, it may be necessary to remove some of the lower quality trees on the property and nurture those of higher quality. This will in turn improve genetic quality, species distribution and diversity through careful tree selection and natural regeneration. Allowing acceptable growing stock the chance to thrive and provide a seed source for the surrounding areas will ensure that quality natural regeneration has an opportunity to establish. Enhancement or enrichment planting may be necessary in areas where there is inadequate or unsuitable natural regeneration. Trees native to P.E.I. that are suitable to the site conditions will be chosen for any required reforestation on the property. Prescribing treatments in some stands while leaving others untreated will provide for a range of forest types. Converting stands from a single species to multiple species is desirable. This can be accomplished by retaining some of the natural regeneration in areas that have been previously planted and by planned tree selection in stand improvement treatments. Planted and natural stands on the property will be assessed for health and growth of desired species on an on-going basis. This information will be used to determine when and where future treatments will be carried out. Through time, a favourable healthy mixture of short-lived and long-lived species will provide for an abundance of quality forest products, biodiversity, wildlife, and recreational opportunities as well as a range of ecological goods and services (such as clean air and water).

Property Overview

Location

Property # 225458 is located on Route #13, in the community of Brookvale, P.E.I. (Appendix A). The total area of this property is 30.3 hectares (75 acres) and the midpoint of the property is Latitude N 46.284060 decimal degrees, Longitude W -63.390454 decimal degrees.

Past Information

Local records and previous aerial photography show that approximately 27 hectares (67 acres) of this property was used for agricultural purposes early in the 20th century. To better illustrate this historical photography can be seen in Appendix B.

In 1935, photos show all the farmland being actively farmed. Structures are evident to the northwest corner adjacent to the highway.

By 1958, a small field to the south and a strip to the southeast were abandoned from farming. The remainder appears to be actively being farmed.

On the 1968 photo, all the old hedgerows are evident with advanced regeneration of natural White Spruce found reclaiming the abandoned fields.

Property Information

The information in Appendix D has been taken from the 2010 Corporate Land Use Inventory. An explanation of forestry code meanings can be seen in Appendix E. Any stands that have proposed silvicultural treatment prescriptions are to have on-ground stand assessments completed prior to any work being started. This on-ground assessment information is included in this plan as updated stand

tally sheets (Appendix F) and supplements the extrapolated data where applicable. A topographic map of the property shows the general terrain profile, the ranges in elevation and the plantations currently on the property (Appendix G).

Wetland and Watercourses

There are two streams located on this property. A small 3' stream is found to the north. The other or "main" stream on the south boundary is 15 to 20' wide. The stream from the north re-enters the property near the south end. This stream is identified as Skye Brook and empties into the main stream to the south. The water flows generally north to south and then southwest, eventually ending up in the Bonshaw River of the West River Watershed. This observation can be viewed in Appendix A.





The picture above shows siltation in a drainage gully at the north end of the property following an extreme rain event in 2018. A highway culvert was concentrating flow from adjacent open farm fields to the north of Rte#13. During rain or melt events, the flow carried sediment through the highways culvert onto the woodlot. The Forests, Fish & Wildlife Division brought the issue to the attention of Agriculture, the farmer and Highways officials. A plan was devised to construct erosion control measures on the adjacent farmland to help prevent future issues and protect the woodlot stream.

Small trout have been observed in various locations on the watercourses indicating the importance of these streams to local fish populations.

Property Access

Access to this property is provided by a 1700m class 1 woodlot road. A bridge provides a stream crossing to the the north. This bridge had the deck replaced and upgrades to the stringers in 2018. The road then continues south end of the property to the stream.. Ongoing road maintenance will be required to keep the road in a useable condition. This will include keeping the right-of-way clear of any brush or trees, repairing rutting on the road, repairing any wet areas that restrict access, and any other maintenance required to keep these roads usable. Existing roads on the property can be seen on Appendix A.

During Fiona salvage operations, brush matting was used on the road surface near the bridge to prevent erosion. The brush layer will be removed from the road surface when sufficiently dry. The brush can be piled in a manner to create wildlife cover and enhance wildlife habitat. Below is a section of road with the brush mat layer in place.



Property Boundaries

This property is bounded on the east and west by private land. The northern boundary fronts on Rte. #13. The southern boundary is found on the stream and adjacent to a protected “Natural Area” (NAPA) property owned by the Government of PEI.

Fire Protection

This property is located within the jurisdiction of the Crapaud Fire Department. The amount of personnel and equipment used to fight any forest fires will depend greatly upon the size and severity of the fire. Protection of our woodland from forest fire is the responsibility of the Forestry Division and our local community fire brigades. In the Western District, there are four-wheel drive forestry fire trucks housed at each of the Wellington and West Point Fire Departments. These heavy-duty trucks are available to assist the local fire department responsible for this area. Additional forestry fire trucks, off road tracked vehicles, portable pumps and specialized forest fire suppression equipment are available if needed. Specialized equipment includes “muskegs” that are designed for wildfires and these are on standby at the JF Gaudet Provincial Tree Nursery at Upton Rd., Charlottetown. The streams that flow through the property would be suitable sites to setup a portable fire pump system.

Planting and Silviculture

There are 12 plantations on the property. It is recommended that any trees planted on the property be assessed at regular intervals. These assessments will determine if the planted trees require manual maintenance or fill planting as specified in the ECOSYSTEM-BASED FOREST MANAGEMENT

STANDARDS MANUAL (“Eco Manual”). A list of all silviculture treatments completed on the property from 1991 to present is shown in Appendix G.

Proposed Treatments

The 2006 Forest Policy “Moving to Restore a Balance in Island Forests” lays out the framework for Public Land Forest management. The Eco-Manual provides details for prescribed treatments. All work completed on this property must comply with that manual. Although all stands were assessed, only specific stands were prescribed treatments to accomplish goal(s) within the next 10 years. Table 1 provides a summary of these proposed treatments. Proposed treatments may be updated in 5 years, when the 10-year period expires, or due to unforeseen events. This table will be updated as required when additional treatments are prescribed. For a better understanding of the treatments prescribed, a more detailed explanation is available in the ECOSYSTEM-BASED FOREST MANAGEMENT STANDARDS MANUAL (“Eco Manual”)

www.princeedwardisland.ca/sites/default/files/publications/2018_eco_manual_technical_version_-_final.pdf . Any additional information may be obtained by contacting a Provincial Forest

representative at the District Forestry Office in Wellington.

Table 1. Proposed Treatment Summary.

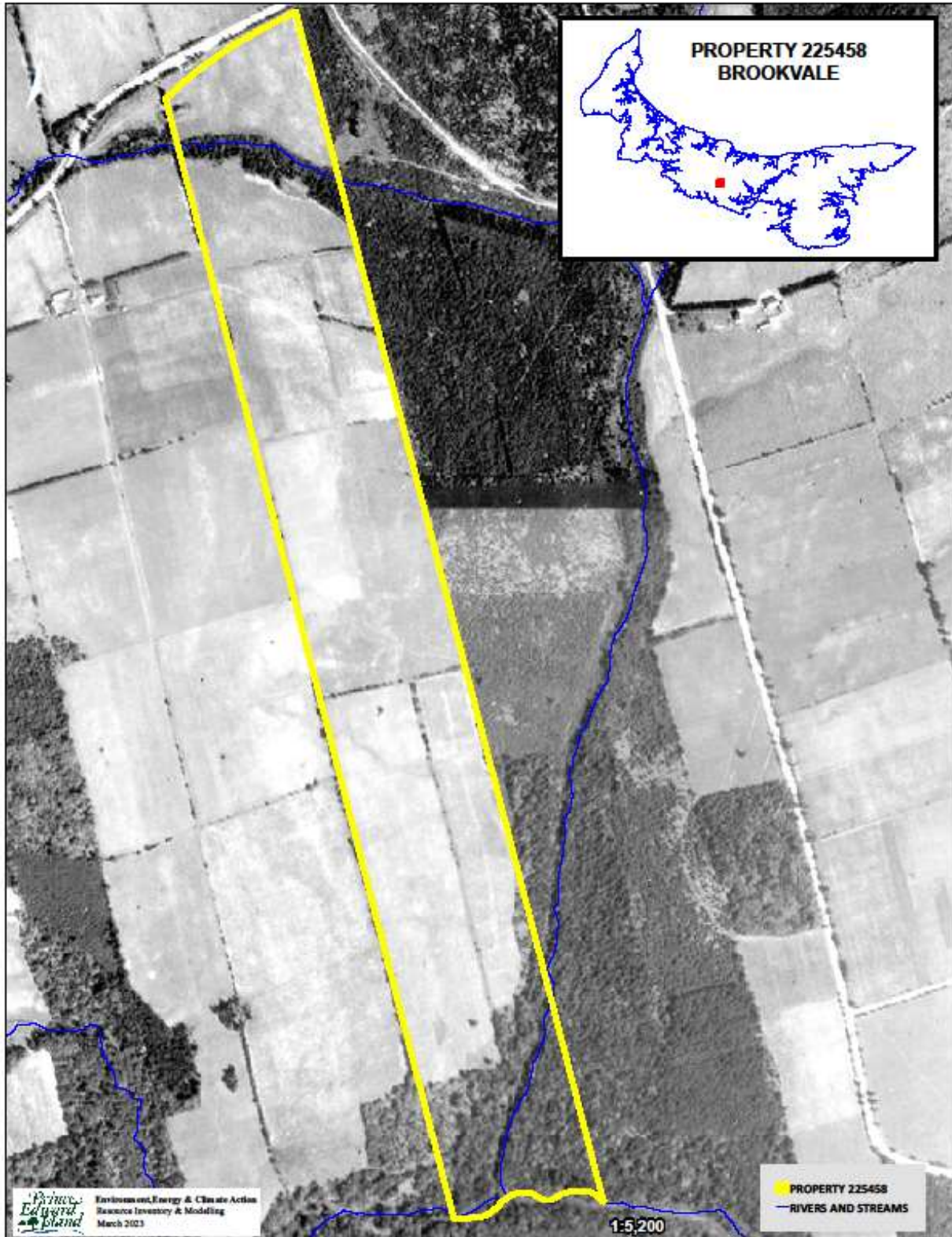
Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	2018 Eco-Manual Reference	Comments	Goals
Road	Road Maintenance	2023 to 2033 (as required)	1.7 km	Pg 12	Brush cutting, remove brush matt	Improve road access
Wildlife	Wildlife Enhancement	2023	0.3 km	Pg 34	Create brush piles on road edge and riparian zone edge	Create wildlife cover and nesting areas
941753 & 941752	Crop Tree Release	2023	0.4 Ha	Pg 23	Specific section to be flagged, release	Encourage development and quality
941753 & 941752	Invasive Species Removal	2023	1	Pg 38	Scotch Pine (GIS map attached)	Control spread of invasive species
94098 & (pocket 941355E) & 941436 & 94451	Manual Site Preparation and Plant	2023	6.00 Ha	Pg 14 & 16	Insufficient natural-regeneration present pre-Fiona windfall	Reforest, develop future healthy forest, enrich riparian zone
94098 & (pocket 941355E) & 941436 & 94451	Manual Site Preparation and Enrichment Plant	2023	6.00 Ha	Pg 14 & 17	Scatter plant at low density	Develop diversity and future seed sources
94334	Manual Site Preparation and Enrichment Plant	2023	0.77 Ha	Pg 14 & 17	Enrich plant with long-lived species in riparian zone	Create diversity in riparian zone, mast & future seed sources
941308 PN 2990311	Commercial Thin & Crop Tree Prune	2024	1.3 Ha	Pg 26 & 20	Too dense, good quality stems, minimal weevil	Maintain crown development and diameter growth on quality stems
941754 PN 2020311	Commercial Thin (Crop Tree Prune)	2024	0.98 Ha	Pg 26 & 20	Too dense, good quality stems, minimal weevil	Maintain crown development and diameter growth on quality stems
94098 & (pocket 941355E) & 941436 & 94451	Manual Maintenance	2027	6.00 Ha	Pg 17	Future maintenance if required, monitor yearly for timing	Help establish future forest, favour quality (maintain diversity)
ST 941355 (PN 3180121)	Manual Maintenance	2028	1.05	Pg 17	Monitor yearly to see if manual maintenance will be required, note: research PSP established	Continue development of established plantation and encourage diversity

*Many of the developing plantations have received treatments in the past. The road has been regularly maintained. Some stands require time to develop further. There was insufficient natural regeneration present under the old field White Spruce stands that were heavily damaged by Hurricane Fiona. A large portion of the property lacked diversity due to the history of farming. As the property is managed over time, transitions can be made to improve diversity and wildlife values while producing timber volume and value.

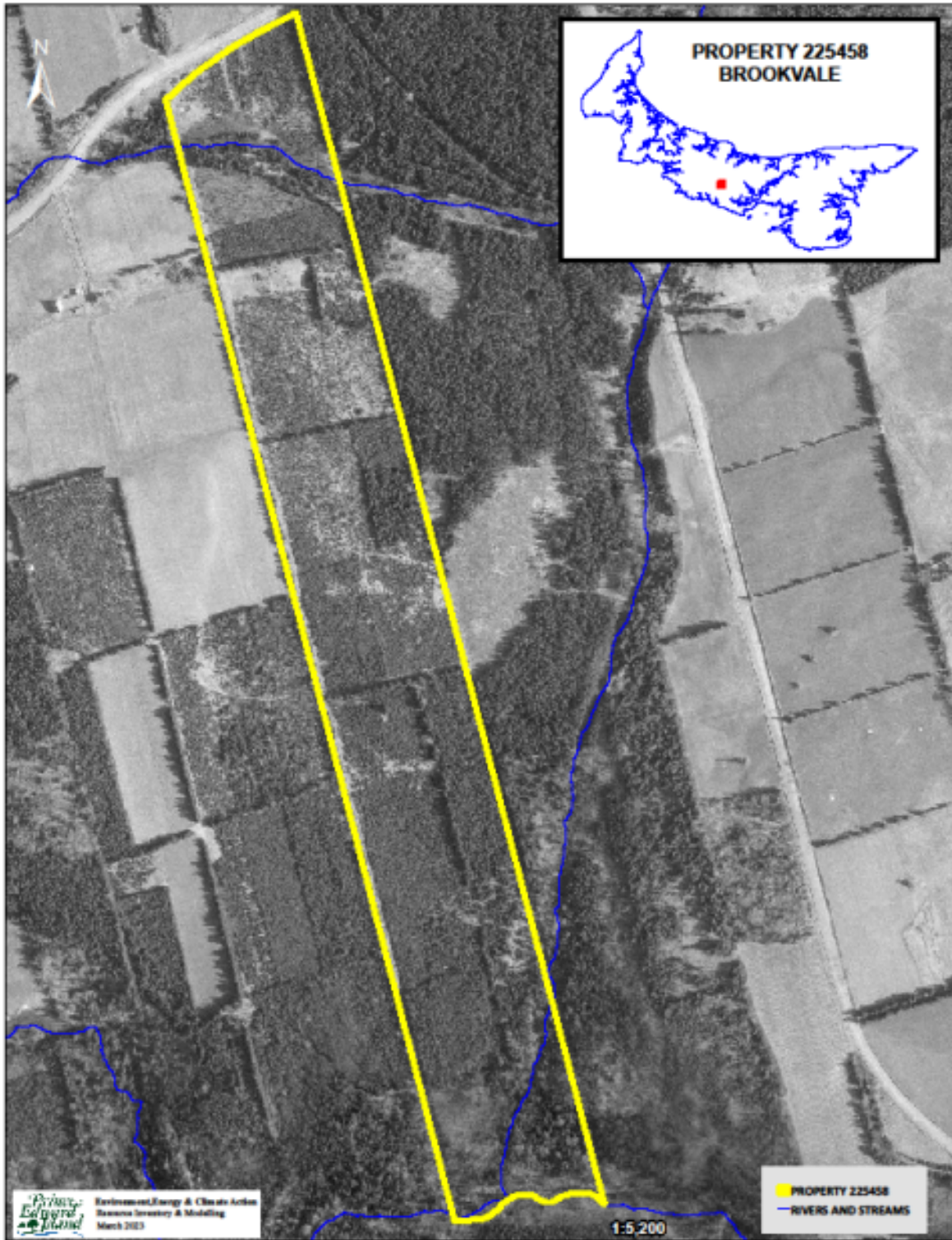
Following hurricane Fiona, the “old field” mature and over-mature timber stands were extensively damaged. Essentially 100% of the trees were blown over or broken off. An emergency salvage harvest was completed to remove timber volume and value, to capture some sequestered carbon, to allow for access for planting, and to mitigate fire risk with the extreme fuel loading. The picture below shows the conditions during Fiona salvage operations in an area that was completely forested prior to the storm.



Appendix B. 1935 Aerial Photography



Appendix C. 1968 Aerial Photography



Appendix D. 2010 Corporate Land Use Inventory

<u>FIELDID</u>	<u>COVER1</u>	<u>PER1</u>	<u>COVER2</u>	<u>PER2</u>	<u>COVER3</u>	<u>PER3</u>	<u>COVER4</u>	<u>PER4</u>	<u>COVER5</u>	<u>PER5</u>	<u>HEIGHT</u>	<u>CROWN</u>	<u>HECTARES</u>	<u>WOODSTOCK</u>
0941308	WP	9	WB	1		0		0		0	7	85	1.30	WP
0941754	WP	8	WB	1	PO	1		0		0	5	85	0.98	WP
094098	WS	10		0		0		0		0	15	85	1.80	WSPR
094334	WS	9	WB	1		0		0		0	17	65	0.74	WSPR
0941355	WS	10		0		0		0		0	14	85	1.91	WSPR
094483	WS	9	WB	1		0		0		0	4	80	0.05	WSPR
094467	RP	9	WP	1		0		0		0	8	90	0.00	RPPR
094451	BF	9	WB	1		0		0		0	9	80	0.66	BFPR
0941310	RP	10		0		0		0		0	11	75	2.10	RPPR
0941516	WS	3	RM	2	WB	2	BF	2	SM	1	16	75	1.03	SWIH
094452	NS	7	WB	2	RM	1		0		0	5	75	0.00	SWPR
0941311	NS	4	WP	3	WB	2	PO	1		0	7	55	0.52	SWMX
0941751	WS	10		0		0		0		0	0	0	0.30	WSPR
0941436	WS	9	WB	1		0		0		0	16	85	5.05	WSPR
0941755	NS	6	PO	2	WB	2		0		0	3	0	1.08	SWIH
0941348	RM	5	WB	2	PO	1	BF	1	WS	1	17	75	1.09	IHMX
094402	WS	4	AL	3	RM	2	WB	1		0	12	45	0.03	IHSW
0941309	SM	4	RM	2	BF	2	WB	1	YB	1	18	85	1.24	THMX
0941752	PO	5	RM	2	WB	2	NS	1		0	6	60	1.19	IHMX
0941753	PO	3	RM	3	WB	2	WS	1	PC	1	6	60	1.13	IHMX
0941763	BS	3	RM	3	WB	2	PO	1	PC	1	6	75	0.70	IHMX

Appendix E. Forest Inventory Codes

EXPLANATION OF FOREST CODES; SPECIES

WS	White Spruce	JL	Japanese Larch	WB	White Birch
BF	Balsam Fir	EL	European Larch	PO	Poplar
HE	Hemlock	NS	Norway Spruce	RM	Red Maple
WP	White Pine	PC	Pin Cherry	RO	Red Oak
RP	Red Pine	MA	Apple	WA	White Ash
JP	Jack Pine	SP	Scots Pine	EM	Elm
CE	Cedar	AP	Austrian Pine	GB	Gray Birch
LA	Larch	YB	Yellow Birch	AL	Alders
BS	Black Spruce	SM	Sugar Maple	LI	Linden
RS	Red Spruce	BE	Beech		

PERCENT

0	1 - 9%
1	10 - 19%
2	20 - 29 %
3	30 - 39 %
4	40 - 49 %
5	50 - 59 %
6	60 - 69 %
7	70 - 79 %
8	80 - 89 %
9	90 - 100 %

CROWN CLOSURE

A	91 % - 100%
B	81 % - 90 %
C	71 % - 80 %
D	61 % - 70 %
E	51 % - 60 %
F	41 % - 50 %
G	31 % - 40 %
H	21 % - 30 %
I	11 % - 20 %
J	0 % - 10 %

ORIGIN AND HISTORY

BR	Burn	DI	Disease-Insect
WF	Wind Fall	OF	Old Field
PC	Partial Cut	PN	Plantation
CC	Clear Cut	HR	Hedgerow
TH	Thinning	EP	Excavation Pit

SAMPLE DESCRIPTIONS

FOREST STAND DESCRIPTIONS

75401 – Stand No.

SM5RM4 – Sugar Maple 50%, Red Maple40%

WS1 12A – White Spruce 10%, Height, Crown Closure

OF – Origin History Old Field

Stand Numbering relates to the position of the stand within a 100 X 100 grid cell over lay with the minimum values in the southwest corner and the maximum values in the northeast corner.

A stand labeled 75 40 1 would be positioned within easting grid 75 and northing grid 40 and would be the first stand within that grid cell.

NON-FOREST LAND TYPES

BO	Bog	AL	Alders
CL	Clear Land	FL	Flowerage
SO	Swamps – Open	AG	Agricultural Land
EP	Excavation Pit	SD	Sand Dune
PL	Power Line	UR	Urban
C	Cemetery	WW	Water

FOREST GROUND CONDITION

SW	Wet – Swampy
ST	Steep
SY	Sandy

Appendix F. Stand Tally Sheets from on the Ground Assessment

STAND TALLY SHEET

CRUISER L. Stevenson STAND # 941753 and 941752 PLANTATION # 2030221&2030222 (NS)
 PROPERTY # 225458 AREA 2.32 ha Date 7 / 2 / 2023
D M Y

SAMPLE TREE INFORMATION									
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	GB	20	13	9	4				
2	PC	20	8	7	5				
3	NS	20	12	7	6				

STAND INFORMATION												
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha	
Species and (%)	GB	30 %	PC	50 %			(RM), (NS to W, a few), WB, PO, AL, MA					
Even-aged	X		Uneven-aged				Biomass					
Slope	8 %		Aspect		SE							
Stand Origin:	Old Field	X		Partial Cut			Burn			Unploughed		
	Windfall			Non Forest			Ploughed	X				
	Clear Cut	X		Unknown								
Stand Maturity Class:	Regeneration			Immature	X		Mature			Over-mature		
Stand Stocking:	Understocked			Fully Stocked	X		Overstocked			Patchy		
Density:	SW *			HW	5,000							
Advanced Regeneration:	Understocked	X		Fully Stocked			Overstocked			Patchy		
Regeneration:	1. Spp.			Height			2. Spp.			Height		
	3. Spp.			Height			4. Spp.			Height		

GROUND OBSERVATIONS									
Ground Vegetation Species Present:	fireweed opening (AL and Wi noted) raspberry, choke cherry, beaked hazel mountain Ash to south								
Ground Hemlock	X								
Invasive Species Present	X		Y / N	If yes then what species: Scotch Pine invasive					
Site Indicators	Y / N		If yes then what species:						

ENVIRONMENTAL OBSERVATIONS										
Water Course	Bog	Pond	Stream	Seeps	Beaver Present		Y / N			
Drainage:	Poor	Moderate	Good	X	Excellent	X	Erosion Control Required			Y / N
Snag Trees:	Adequate	Inadequate		X						
Coarse Woody Material:	Adequate	Inadequate		X						
Dens	Nests (Raptors, songbirds, etc.)									
Wildlife Observed	snowshoe hare tracks edge of woodland road									
Comments	Edge to hurricane Fiona windfall in stand to north									

STAND PRESCRIPTION											
No Treatment			Regeneration Cut			Crop Tree Release	X		Block Cut		
Shelterwood Cut			Selection Cut			Patch Cut			Strip Cut		
Commercial Thinning			Afforestation			Site Preparation					
Pre-commercial Thinning			Reforestation			Riparian Zone Mgmt					
Pln. Maint.	Y / N		Stems/Ha								
Comments:	Wildfire enhance patch cut but no volume (probably not feasible due to no product, biomass future) Crop Tree Release to west (NS, clear around), keep diversity, release softwoods in small area, take GB and PC, leave WB (leders in open over 1m), not Free to Grow on planted stems, most planted NS failed, (GB 8m, NS 4m), only pocket to treat southwest and west (crew?)										

STAND TALLY SHEET											
CRUISER	L. Stevenson		STAND #	941763		PLANTATION #	2020313(BS)				
PROPERTY #	225458		AREA	0.7 ha		Date	7 /	2 /	2023		
							D	M	Y		
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	BS	21	17	6	4						
2	BS	21	10	7	5						
3	BS	21	8	6	6						
STAND INFORMATION											
Stand Basal Area	SW	M ² /Ha	SWSL	M ² /Ha	HW	M ² /Ha	HWSL	M ² /Ha			
Species and (%)	BS 10 %	%	%	%	RM, WB (couple left)						
Even-aged	X	Uneven-aged							Biomass		
Slope	8 %	Aspect	E								
Stand Origin:	Old Field	X	Partial Cut	Burn	Unploughed						
	Windfall	Non Forest	Ploughed	X							
	Clear Cut	X	Unknown								
Stand Maturity Class:	Regeneration	Immature	X	Mature	Over-mature						
Stand Stocking:	Understocked	Fully Stocked	X	Overstocked	Patchy						
Density:	SW 1750	HW									
Advanced Regeneration:	Understocked	X	Fully Stocked	Overstocked	Patchy						
Regeneration:	1. Spp. PC	Height	2	2. Spp. PO	Height	2					
	3. Spp.	Height		4. Spp.	Height						
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	snow cover										
Ground Hemlock	Y / N	X									
Invasive Species Present	Y / N	If yes then what species:									
Site Indicators	Y / N	If yes then what species:									
ENVIRONMENTAL OBSERVATIONS											
Water Course	Bog	Pond	Stream	Seeps	Beaver Present	Y / N					
Drainage:	Poor	Moderate	Good	X	Excellent	X	Erosion Control Required	Y / N			
Snag Trees:	Adequate	Inadequate	X								
Coarse Woody Material:	Adequate	Inadequate	X								
Dens	Nests (Raptors, songbirds, etc.)										
Wildlife Observed	hare sign (minimal)										
Comments	immature dense crowns, openings, nesting oportunities										
STAND PRESCRIPTION											
No Treatment	X	Regeneration Cut	Crop Tree Release	Block Cut							
Shelterwood Cut	Selection Cut	Patch Cut	Strip Cut								
Commercial Thinning	Afforestation	Site Preparation									
Pre-commercial Thinning	Reforestation	Riparian Zone Mgmt									
Pln. Maint.	Y / N	Stems/Ha									
Comments:	good to go, monitor periodically, crowns OK, not quality BS site (too dry)										
	check for insert defoliation periodically (2-3 years), stand is doing well, just monitor for changes										
	in health at this point and leave to develop										

STAND TALLY SHEET													
CRUISER	L. Stevenson		STAND #	941355		PLANTATION #	3180121 WS(WP)						
PROPERTY #	225458		AREA	1.91 ha		Date	7 /	2 /	2023				
							D	M	Y				
SAMPLE TREE INFORMATION													
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	*TREE #'s in Plantation							
1						WS	1449	RO	65				
2						YB	30	SM	30				
3						WP							
STAND INFORMATION													
Stand Basal Area	SW		M ² /Ha	SWSL		M ² /Ha	HW		M ² /Ha	HWSL		M ² /Ha	
Species and (%)		%		%		%			PO, PC, WB				
Even-aged	X		Uneven-aged							Biomass			
Slope	12 %		Aspect	N/NE									
Stand Origin:	Old Field	X	Partial Cut	X		Burn			Unploughed				
	Windfall	X	Non Forest						Ploughed	X			
	Clear Cut	X	Unknown										
Stand Maturity Class:			Regeneration	X		Immature			Mature			Over-mature	X
Stand Stocking:			Understocked			Fully Stocked			Overstocked			Patchy	X
Density:	SW	1500	HW										
Advanced Regeneration:			Understocked			Fully Stocked	X		Overstocked			Patchy	
Regeneration:	1. Spp.	WS	Height	1.2		2. Spp.			Height				
	3. Spp.		Height			4. Spp.			Height				
GROUND OBSERVATIONS													
Ground Vegetation Species Present:	raspberry, pin cherry, grass, moss, goldthread, blackberry												
Ground Hemlock		Y / N	X										
Invasive Species Present			Y / N			If yes then what species:							
Site Indicators		Y / N				If yes then what species:							
ENVIRONMENTAL OBSERVATIONS													
Water Course		Bog		Pond		Stream	X		Seeps		Beaver Present	Y / N	
Drainage:	Poor		Moderate		Good		Excellent	X		Erosion Control Required		Y / N	
Snag Trees:	Adequate		Inadequate	X									
Coarse Woody Material:		Adequate	X		Inadequate								
Dens			Nests (Raptors, songbirds, etc.)										
Wildlife Observed													
Comments	ws snags (dead) but not stable adjacent to stream in riparian zone, good dense low cover												
STAND PRESCRIPTION													
No Treatment			Regeneration Cut			Crop Tree Release			Block Cut				
Shelterwood Cut			Selection Cut			Patch Cut			Strip Cut				
Commercial Thinning			Afforestation			Site Preparation							
Pre-commercial Thinning			Reforestation			Riparian Zone Mgmt							
Pln. Maint.	X	Y / N	Stems/Ha										
Comments:	most of stand was clearcut and planted in 2018, the plantation had the first maintenance completed, some enrichment planting was completed as noted above, a small section on the eastern portion had old strips cuts that regenerated with raspberry and pincherry (no quality tree development), a pocket of young Po was saved for diversity during maintenance, a PSP research plot was established, buffer to south by stream, monitor plantation periodically to determine timing if maintenance needed												

CRUISER	L. Stevenson		STAND #	941436		PLANTATION #						
PROPERTY #	225458		AREA	5.08 ha	Date	7 /	2 /	2023				
						D	M	Y				
SAMPLE TREE INFORMATION												
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1						4						
2						5						
3						6						
STAND INFORMATION												
Stand Basal Area	SW		M ² /Ha	SWSL		M ² /Ha	HW		M ² /Ha	HWSL		M ² /Ha
Species and (%)		%	%		%	%	(WB, PO)					
Even-aged			Uneven-aged							Biomass		
Slope	5 %	Aspect	E, SE, N									
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed					
	Windfall	X	Non Forest				Ploughed	X				
	Clear Cut	X	Fiona	Unknown								
Stand Maturity Class:		Regeneration		Immature		Mature		Over-mature				
Stand Stocking:		Understocked	X	Fully Stocked		Overstocked		Patchy				
Density:	SW		HW									
Advanced Regeneration:		Understocked	X	Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.		Height		2. Spp.		Height					
	3. Spp.		Height		4. Spp.		Height					
GROUND OBSERVATIONS												
Ground Vegetation Species Present:	mountain ash, haircap moss, grass											
	noted wood fern, elderberry, and beaked hazel, raspberry north											
Ground Hemlock	Y / N	X										
Invasive Species Present		Y / N		If yes then what species:								
Site Indicators	Y / N			If yes then what species:								
ENVIRONMENTAL OBSERVATIONS												
Water Course		Bog		Pond		Stream		Seeps		Beaver Present	Y / N	
Drainage:	Poor		Moderate		Good	X	Excellent			Erosion Control Required	Y / N	
Snag Trees:	Adequate		Inadequate	X								
Coarse Woody Material:		Adequate	X	Inadequate								
Dens		Nests (Raptors, songbirds, etc.)										
Wildlife Observed												
Comments	a few small snags, no diversity, upturned root plates, a few mixed residuals including Mountain Ash											
STAND PRESCRIPTION												
No Treatment				Regeneration Cut		Crop Tree Release		Block Cut				
Shelterwood Cut				Selection Cut		Patch Cut		Strip Cut				
Commercial Thinning				Afforestation		Site Preparation	X					
Pre-commercial Thinning				Reforestation	X	Riparian Zone Mgmt						
Pln. Maint.	X	Y / N		Stems/Ha								
Comments:	<p><i>NOTE: central strip cut 0.49 Ha planted with hardwoods 2018, WS planted 2019 (added a few WP),</i></p> <p><i>Notes prior to Fiona: "need to start to transition to future before advanced decline, precede impending collapse and regeneration of mountain ash and raspberry (no regeneration under stand which was selectively cut over time)" , PSP research plot lost in hurricane Fiona, stand was completely windfelled with 100% damage (upturned roots, windfall, some broken stems)</i></p> <p><i>this stand was emergency Fiona salvaged and now requires planting to develop a future stand</i></p>											

STAND TALLY SHEET													
CRUISER L. Stevenson				STAND #		94451		PLANTATION #					
PROPERTY #		225458		AREA		0.66 ha		Date		7 / 2 / 2023			
								D		M Y			
SAMPLE TREE INFORMATION													
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT				
1					4								
2	WP	35	33	14	5								
3	*residual				6								
STAND INFORMATION													
Stand Basal Area		SW		M ² /Ha	SWSL		M ² /Ha	HW		M ² /Ha	HWSL		M ² /Ha
Species and (%)			%		%		%	(WP)	%				
Even-aged		X											
Uneven-aged													
Slope		7 %		Aspect		SE							
Stand Origin:		Old Field		X		Partial Cut				Burn			
		Windfall		X		Non Forest				Unploughed			
		Clear Cut		X		Unknown				Ploughed		X	
Stand Maturity Class:		Regeneration				Immature				Mature			
		Over-mature											
Stand Stocking:		Understocked		X		Fully Stocked				Overstocked			
		Patchy											
Density:		SW	125	HW									
Advanced Regeneration:		Understocked		X		Fully Stocked				Overstocked			
Regeneration:		1. Spp.				Height				2. Spp.			
		3. Spp.				Height				4. Spp.			
GROUND OBSERVATIONS													
Ground Vegetation Species Present:		Moss (minimal ground cover)											
Ground Hemlock		Y / N X											
Invasive Species Present		Y / N		If yes then what species:									
Site Indicators		Y / N		If yes then what species:									
ENVIRONMENTAL OBSERVATIONS													
Water Course		Bog		Pond		Stream		Seeps		Beaver Present		Y / N	
Drainage:		Poor		Good		X		Excellent		Erosion Control Required		Y / N	
Snag Trees:		Adequate		Inadequate X									
Coarse Woody Material:		Adequate		X Inadequate									
Dens		Nests (Raptors, songbirds, etc.)											
Wildlife Observed													
Comments		a few scattered WP residuals left following hurricane Fiona damage											
STAND PRESCRIPTION													
No Treatment				Regeneration Cut				Crop Tree Release				Block Cut	
Shelterwood Cut				Selection Cut				Patch Cut				Strip Cut	
Commercial Thinning				Afforestation				Site Preparation		X			
Pre-commercial Thinning				Reforestation		X		Riparian Zone Mgmt					
Pln. Maint.		X Y / N		Stems/Ha									
Comments:		immature plantation on exposed site, high elevation, damaged by hurricane Fiona, salvage removed											
		Balsam Fir component, a few scattered WP standing (future seed and diversity), area requires											
		planting and possible future maintenance to help develop future stand, no regeneration under											

STAND TALLY SHEET												
CRUISER	L. Stevenson		STAND #	94098		PLANTATION #	3180131(mix) 0.3Ha					
PROPERTY #	225458		AREA	1.77 ha		Date	7 /	2 /	2023			
							D	M	Y			
SAMPLE TREE INFORMATION												
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	Tree #'s planted in 3180131 (0.3Ha)						
1						RO	30	WA	15			
2						YB	30					
3						SM	30					
STAND INFORMATION												
Stand Basal Area	SW		M ² /Ha	SWSL		M ² /Ha	HW		M ² /Ha	HWSL	M ² /Ha	
Species and (%)		%	%		%	%	WS, WB, RP					
Even-aged X	Uneven-aged								Biomass			
Slope	5 %	Aspect	S/SW									
Stand Origin:	Old Field	X	Partial Cut	X	Burn		Unploughed					
	Windfall	X	Non Forest				Ploughed	X				
	Clear Cut	X	Unknown									
Stand Maturity Class:	Regeneration		X	patch	Immature		Mature		Over-mature			
Stand Stocking:	Understocked		X	Fully Stocked		Overstocked		Patchy				
Density:	SW		HW									
Advanced Regeneration:	Understocked		X	Fully Stocked		Overstocked		Patchy		X		
Regeneration:	1. Spp.	PC	Height	2	2. Spp.	GB	Height	1				
	3. Spp.		Height		4. Spp.		Height					
GROUND OBSERVATIONS												
Ground Vegetation Species Present:	patch cut (raspberry, grass, goldenrod, Gray Birch, Pincherry)											
	under WS (was minimal ground cover, moss)											
Ground Hemlock	Y / N	X										
Invasive Species Present	Y / N	If yes then what species:										
Site Indicators	Y / N	If yes then what species:										
ENVIRONMENTAL OBSERVATIONS												
Water Course	X	Bog		Pond		Stream	X	Seeps		Beaver Present	Y / N	
Drainage:	Poor	Moderate		Good	X	Excellent	X	Erosion Control Required				Y / N
Snag Trees:	Adequate		Inadequate									X
Coarse Woody Material:	Adequate		X									Inadequate
Dens		Nests (Raptors, songbirds, etc.)										
Wildlife Observed												
Comments	patch cut with edge effect, riparian zone had some salvage											
STAND PRESCRIPTION												
No Treatment				Regeneration Cut		Crop Tree Release		Block Cut				
Shelterwood Cut				Selection Cut		Patch Cut		Strip Cut				
Commercial Thinning				Afforestation		Site Preparation	X					
Pre-commercial Thinning				Reforestation	X	Riparian Zone Mgmt						
Pln. Maint.	X	Y / N		Stems/Ha								
Comments:	*a patch cut of mature WS was enrichment planted (0.28 ha patch 2018-19) & plantation maintained, main stand exposed to north and heavily damaged in hurricane Fiona, emergency salvage completed, stand located on dry slopes, complete windfall, stand contains bridge on woodlot road (deck upgraded), fixed with new deck, roadway brush mat to prevent erosion, requires planting to develop future forest. old underplantings damaged by fallen trees, plant and future manual maintenance, WS was in decline prior to Fiona, note WS residual around 63 years of age in riparian zone, enhance plant riparian zone											

STAND TALLY SHEET												
CRUISER	L. Stevenson			STAND #	941308			PLANTATION #	2990311(WP)			
PROPERTY #	225458			AREA	1.29 ha		Date	7 /	2 /	2023		
								D	M	Y		
SAMPLE TREE INFORMATION												
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	WP	24	25	12		4						
2	WP	24	21	11		5						
3						6						
STAND INFORMATION												
Stand Basal Area	SW		M ² /Ha	SWSL		M ² /Ha	HW		M ² /Ha	HWSL		M ² /Ha
Species and (%)	WP100	%	%	%	%							
Even-aged	Uneven-aged									Biomass		
Slope	14	%	Aspect	E								
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed					
	Windfall		Non Forest				Ploughed	X				
	Clear Cut		Unknown									
Stand Maturity Class:	Regeneration			Immature	X	Mature		Over-mature				
Stand Stocking:	Understocked			Fully Stocked		Overstocked	X	Patchy				
Density:	SW	3500	HW									
Advanced Regeneration:	Understocked		X	Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.		Height		2. Spp.		Height					
	3. Spp.		Height		4. Spp.		Height					
GROUND OBSERVATIONS												
Ground Vegetation Species Present:	no ground cover (full WP needle coverage)											
Ground Hemlock	Y / N	X										
Invasive Species Present		Y / N		If yes then what species:								
Site Indicators		Y / N		If yes then what species:								
ENVIRONMENTAL OBSERVATIONS												
Water Course		Bog		Pond		Stream		Seeps		Beaver Present	Y / N	
Drainage:	Poor		Moderate		Good	X	Excellent	X		Erosion Control Required	Y / N	
Snag Trees:	Adequate		Inadequate	X								
Coarse Woody Material:	Adequate		Inadequate	X								
Dens		Nests (Raptors, songbirds, etc.)										
Wildlife Observed												
Comments	snowshoe hare tracks in snow											
STAND PRESCRIPTION												
No Treatment			Regeneration Cut		Crop Tree Release		Block Cut					
Shelterwood Cut			Selection Cut		Patch Cut		Strip Cut					
Commercial Thinning		X	Afforestation		Site Preparation							
Pre-commercial Thinning			Reforestation		Riparian Zone Mgmt							
Pln. Maint.	Y / N		Stems/Ha									
Comments:	stand is too dense, stand would benefit from commercial thinning and prune on crop trees,											
	old recreation trails started and abandoned, some WP weevil noted (15% or less of stems affected),											
	30% LCR, potential to grow in diameter but very dense,taller at top of slope											
	Commercial Thin and Prune if feasible and markets?, some pruned to southeast corner											

STAND TALLY SHEET												
CRUISER	L. Stevenson		STAND #	941311		PLANTATION #	2964501(mixed species)					
PROPERTY #	225458		AREA	0.51 ha		Date	7 /	2 /	2023			
							D	M	Y			
SAMPLE TREE INFORMATION												
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT			
1	WP	27	24	12	4	RP		12	7			
2	NS	27	23	12	5	WS		15	7			
3	LA	27	27	13	6	BF		18	10			
STAND INFORMATION												
Stand Basal Area	SW		M ² /Ha	SWSL		M ² /Ha	HW		M ² /Ha	HWSL		M ² /Ha
Species and (%)	WP 40 %	LA 20 %	NS 20 %				WS, BF, RM, JL, RP					
Even-aged	X		Uneven-aged								Biomass	
Slope	15 %		Aspect	E								
Stand Origin:	Old Field	X		Partial Cut			Burn			Unploughed		
	Windfall			Non Forest						Ploughed	X	
	Clear Cut	X		Unknown								
Stand Maturity Class:	Regeneration				Immature	X		Mature			Over-mature	
Stand Stocking:	Understocked				Fully Stocked	X		Overstocked			Patchy	
Density:	SW	1500		HW	250							
Advanced Regeneration:	Understocked				Fully Stocked			Overstocked			Patchy	
Regeneration:	1. Spp.	PC	Height	2		2. Spp.	ChokeCh.	Height	2			
	3. Spp.		Height			4. Spp.		Height				
GROUND OBSERVATIONS												
Ground Vegetation Species Present:	goldenrod, grass, Pincherry, ChokeCherry, beaked hazel noted (SNOW cover)											
Ground Hemlock	Y / N		X									
Invasive Species Present	Y / N		If yes then what species:									
Site Indicators	Y / N		If yes then what species:									
ENVIRONMENTAL OBSERVATIONS												
Water Course	Bog			Pond			Stream			Seeps		
Drainage:	Poor			Moderate			Good			Excellent	X	
Erosion Control Required	Y / N											
Snag Trees:	Adequate			Inadequate	X							
Coarse Woody Material:	Adequate			Inadequate	X							
Dens	Nests (Raptors, songbirds, etc.)											
Wildlife Observed												
Comments												
STAND PRESCRIPTION												
No Treatment			X	Regeneration Cut			Crop Tree Release			Block Cut		
Shelterwood Cut				Selection Cut			Patch Cut			Strip Cut		
Commercial Thinning				Afforestation			Site Preparation					
Pre-commercial Thinning				Reforestation			Riparian Zone Mgmt					
Pln. Maint.	Y / N			Stems/Ha								
Comments:	old cleaning/plantation maintenance completed, some WP mixed and in openings (could be pruned)											
	scattered NS with good vigor, WP good, RP poor quality, BF has good vigor, LA is dominant											
	continue to monitor development and stand health											

STAND TALLY SHEET											
CRUISER	L. Stevenson			STAND #	941754			PLANTATION #	2020311(WP)		
PROPERTY #	225458			AREA	0.98 ha		Date	7 /	2 /	2023	
								D	M	Y	
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT	
1	WP	21	22	10		4					
2	WP	21	17	8		5					
3						6					
STAND INFORMATION											
Stand Basal Area	SW		M ² /Ha	SWSL		M ² /Ha	HW		M ² /Ha	HWSL	M ² /Ha
Species and (%)	WP100	%	%	%	%						
Even-aged	Uneven-aged									Biomass	
Slope	6	%	Aspect	SE							
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed				
	Windfall		Non Forest				Ploughed	X			
	Clear Cut	X	Unknown								
Stand Maturity Class:	Regeneration			Immature	X	Mature		Over-mature			
Stand Stocking:	Understocked			Fully Stocked	X	Overstocked	X	Patchy			
Density:	SW	3000	HW								
Advanced Regeneration:	Understocked		X	Fully Stocked		Overstocked		Patchy			
Regeneration:	1. Spp.		Height		2. Spp.		Height				
	3. Spp.		Height		4. Spp.		Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	NA (couple of Pincherry in old brush pile in opening)										
Ground Hemlock	Y / N	X									
Invasive Species Present	Y / N	X		If yes then what species:							
Site Indicators	Y / N			If yes then what species:							
ENVIRONMENTAL OBSERVATIONS											
Water Course	Bog		Pond		Stream		Seeps		Beaver Present	Y / N	
Drainage:	Poor		Moderate		Good	X	Excellent	X	Erosion Control Required	Y / N	
Snag Trees:	Adequate		Inadequate	X							
Coarse Woody Material:	Adequate		Inadequate	X							
Dens			Nests (Raptors, songbirds, etc.)								
Wildlife Observed	snowshoe hare at edges, patches of bark peeled off up high on stems										
Comments	nest opportunities, dry gully, pin cherry, dense low cover,										
STAND PRESCRIPTION											
No Treatment			Regeneration Cut		Crop Tree Release		Block Cut				
Shelterwood Cut			Selection Cut		Patch Cut		Strip Cut				
Commercial Thinning	X		Afforestation		Site Preparation						
Pre-commercial Thinning			Reforestation		Riparian Zone Mgmt						
Pln. Maint.	Y / N		Stems/Ha								
Comments:	needs Commercial Thin and prune crop trees, biomass product only (14cd/ac),										
	good locale for WP, WP weevil tally less than 15% damage, windfall strip central due to Fiona,										
	commercial thin to introduce air-flow in stand and limit blister rust,										
	raised large bird in 2019										

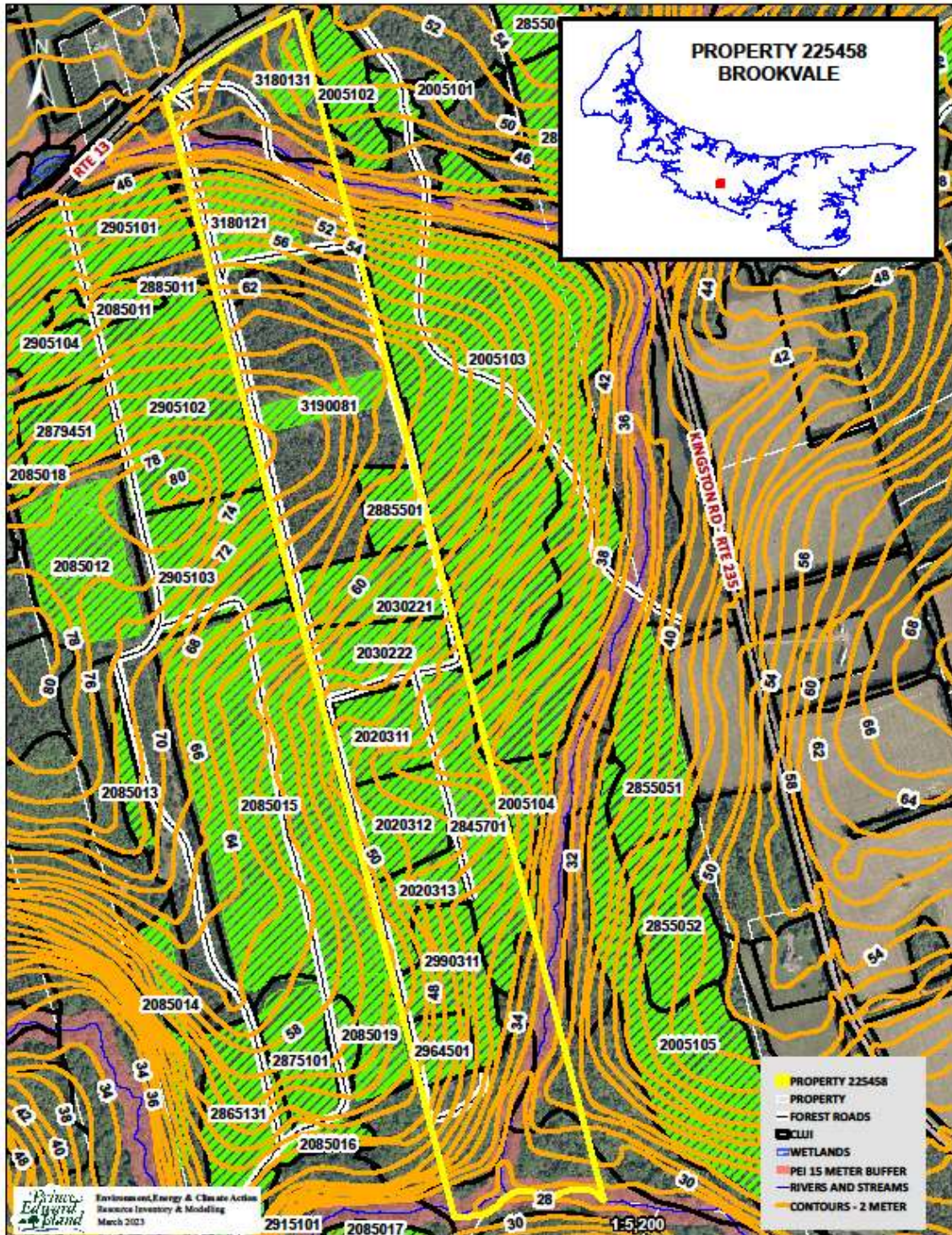
STAND TALLY SHEET											
CRUISER	L. Stevenson		STAND #	941755		PLANTATION #	2020312(NS)				
PROPERTY #	225458		AREA	1.08 ha		Date	7 /	2 /	2023		
							D	M	Y		
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	NS	21	18	11	4						
2	NS	21	13	10	5						
3	NS	21	13	9	6						
STAND INFORMATION											
Stand Basal Area	SW		M ² /Ha	SWSL		M ² /Ha	HW		M ² /Ha	HWSL	M ² /Ha
Species and (%)	NS10C	%	%	%	%		WS, BF				
Even-aged	X		Uneven-aged						Biomass		
Slope	5	%	Aspect	E							
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed				
	Windfall		Non Forest				Ploughed	X			
	Clear Cut	X	Unknown								
Stand Maturity Class:	Regeneration		Immature	X	Mature		Over-mature				
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy				
Density:	SW	1750	HW								
Advanced Regeneration:	Understocked		Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.	PC	Height	1.5	2. Spp.	PO	Height	1.5			
	3. Spp.	WI	Height	1	4. Spp.		Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	*snow cover										
Ground Hemlock	Y / N	X									
Invasive Species Present	Y / N		If yes then what species:								
Site Indicators	Y / N		If yes then what species:								
ENVIRONMENTAL OBSERVATIONS											
Water Course	Bog		Pond		Stream		Seeps		Beaver Present	Y / N	
Drainage:	Poor		Moderate		Good	X	Excellent	X	Erosion Control Required	Y / N	
Snag Trees:	Adequate		Inadequate	X							
Coarse Woody Material:	Adequate		Inadequate	X							
Dens			Nests (Raptors, songbirds, etc.)								
Wildlife Observed	snowshoe hare sign										
Comments	good crown for nesting, openings with coppice RM from past maintenance										
STAND PRESCRIPTION											
No Treatment		X	Regeneration Cut		Crop Tree Release		Block Cut				
Shelterwood Cut			Selection Cut		Patch Cut		Strip Cut				
Commercial Thinning			Afforestation		Site Preparation						
Pre-commercial Thinning			Reforestation		Riparian Zone Mgmt						
Pln. Maint.	Y / N		Stems/Ha								
Comments:	good, open, monitor periodically, was maintained in the past, good vigor,										
	a couple affected by WP weevil but not many (good locale), good future stand,										
	developing coppice from past maintenance providing cover and feeding source for snowshoe hare										
	and others										

STAND TALLY SHEET												
CRUISER	L. Stevenson		STAND #	941309, 941516, 941348			PLANTATION #					
PROPERTY #	225458		AREA	3.43 ha		Date	28	3	/	2019		
							D	M	Y			
SAMPLE TREE INFORMATION												
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT			
1	RM	80	30	17	4	SM	80	24	16			
2	RM	80	28	16	5	RS	80	37	19			
3	BF	75	18	10	6							
STAND INFORMATION												
Stand Basal Area	SW		M ² /Ha	SWSL		M ² /Ha	HW		M ² /Ha	HWSL	M ² /Ha	
Species and (%)	RM 70 %	BF 20 %	YB 10 %			%	SM, WS, WB (noted RS)					
Even-aged	X		Uneven-aged								Biomass	
Slope	5 to 17 %	Aspect	W/SE									
Stand Origin:	Old Field		Partial Cut		Burn		Unploughed	X				
	Windfall		Non Forest								Ploughed	
	Clear Cut	X		Unknown								
Stand Maturity Class:	Regeneration		Immature		Mature	X		Over-mature	X			
Stand Stocking:	Understocked		Fully Stocked	X		Overstocked		Patchy				
Density:	SW	500	HW	1,000								
Advanced Regeneration:	Understocked	X		Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.	BF	Height	3	2. Spp.	RM	Height	5				
	3. Spp.		Height		4. Spp.		Height					
GROUND OBSERVATIONS												
Ground Vegetation Species Present:	mountain maple in riparian zone, beaked hazelnut at edges, of rip zone, ground Hemlock, noted Mountain Ash (*snow cover)											
Ground Hemlock	Y / N	X										
Invasive Species Present	Y / N	If yes then what species: _____										
Site Indicators	Y / N	If yes then what species: _____										
ENVIRONMENTAL OBSERVATIONS												
Water Course	Bog	Pond	Stream	Seeps	Beaver Present	Y / N						
Drainage:	Poor	Moderate	Good	X	Excellent	Erosion Control Required	Y / N					
Snag Trees:	Adequate	Inadequate	X									
Coarse Woody Material:	Adequate	Inadequate	X									
Dens	Nests (Raptors, songbirds, etc.)	snowshoe hare, racoon tracks, raven,										
Wildlife Observed	noted 10 (4" trout), coyote track on road, wildlife trail in riparian zone, (Bobcat tracks adj. prop.)											
Comments	BF feeder snags, no large diameter snags, noted large WS to SW, Skye Brook watershed group work											
STAND PRESCRIPTION												
No Treatment	X	Regeneration Cut	Crop Tree Release	Block Cut								
Shelterwood Cut		Selection Cut	Patch Cut	Strip Cut								
Commercial Thinning		Afforestation	Site Preparation									
Pre-commercial Thinning		Reforestation	Riparian Zone Mgmt									
Pln. Maint.	Y / N	Stems/Ha										
Comments:	stable, not rich site, older bark but moderate diameters with BF under, NO TREATMENT!											
	riparian zone, slope, fish habitat, leave natural with no treatment to protect stream, "NAPA" natural											
	area on properties to south, road access to stream, RS pocket to northeast at top of slope, patch of old											
	large diameter WS to north (future snags), BF 11cm and 11m height throughout WS,											
	15-20' wide main stream, West River Watershed (Skye Brook), keep natural to benefit wildlife/stream											

STAND TALLY SHEET												
CRUISER	L. Stevenson		STAND #	941310		PLANTATION #	2845701(RP)					
PROPERTY #	225458		AREA	2.12 ha		Date	7 /	2 /	2023			
							D	M	Y			
SAMPLE TREE INFORMATION												
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT			
1	RP	35	33	17	4							
2	RP	35	28	17	5							
3	RP	35	24	15	6							
STAND INFORMATION												
Stand Basal Area	SW		M ² /Ha	SWSL		M ² /Ha	HW		M ² /Ha	HWSL		M ² /Ha
Species and (%)	RP100 %		%	%		%	WS, PO, GB (BS)					
Even-aged X	Uneven-aged									Biomass		
Slope	6 %	Aspect	Varies	S	N	S	SE					
Stand Origin:	Old Field	X	Partial Cut	X	Burn		Unploughed					
	Windfall		Non Forest				Ploughed	X				
	Clear Cut		Unknown									
Stand Maturity Class:	Regeneration		Immature		Mature	X	Over-mature					
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy					
Density:	SW	750	HW									
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy					
Regeneration:	1. Spp.	RM	Height	1.5	2. Spp.	PC	Height	1.5				
	3. Spp.	WJ	Height	3	4. Spp.	GB	Height	2				
GROUND OBSERVATIONS												
Ground Vegetation Species Present:	hazel noted (snow), blackberry N edge by road											
Ground Hemlock	Y / N	X										
Invasive Species Present	Y / N		If yes then what species:									
Site Indicators	Y / N		If yes then what species:									
ENVIRONMENTAL OBSERVATIONS												
Water Course	Bog		Pond		Stream		Seeps		Beaver Present	Y / N		
Drainage:	Poor		Moderate		Good	X	Excellent	X	Erosion Control Required	Y / N		
Snag Trees:	Adequate		Inadequate	X								
Coarse Woody Material:	Adequate		Inadequate	X								
Dens		Nests (Raptors, songbirds, etc.)										
Wildlife Observed	coyote track, grouse on N edge											
Comments	open, regeneration coppice low, open crowns (not much nesting opportunities)											
STAND PRESCRIPTION												
No Treatment		X	Regeneration Cut		Crop Tree Release		Block Cut					
Shelterwood Cut			Selection Cut		Patch Cut		Strip Cut					
Commercial Thinning			Afforestation		Site Preparation							
Pre-commercial Thinning			Reforestation		Riparian Zone Mgmt							
Pln. Maint.	Y / N		Stems/Ha									
Comments:	LCR 20-30%, vigor moderate/poor, commercial thinned in past (good quality work),											
	let mature, not much shoot moth damage noted, stem quality poor to fair due to knots,											
	dense immature at edge (edge effect), a couple of WP noted, some Fiona windfall											
	dry gulley (WS, Pincherry cover), some WS planted under in old extraction harvest trails											

STAND TALLY SHEET														
CRUISER	L. Stevenson			STAND #	94334			PLANTATION #						
PROPERTY #	225458			AREA	0.77 ha		Date	7 /	2 /	2023				
								D	M	Y				
SAMPLE TREE INFORMATION														
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT					
1	WS	60	32	16	4									
2	WS	60	39	17	5									
3	WS	60	27	15	6									
STAND INFORMATION														
Stand Basal Area	SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha			
Species and (%)	WS80 %	BF10 %	%	%	%	%	AL, RM, WB, BF							
Even-aged	X		Uneven-aged				Biomass							
Slope	5 to 15 %	Aspect		N and S										
Stand Origin:	Old Field	X		Partial Cut			Burn			Unploughed				
	Windfall	X		Non Forest					Ploughed X					
	Clear Cut			Unknown										
Stand Maturity Class:	Regeneration		X		Immature			Mature	X		Over-mature	X		
Stand Stocking:	Understocked				Fully Stocked			Overstocked			Patchy			
Density:	SW	1000		HW	250									
Advanced Regeneration:	Understocked				Fully Stocked			Overstocked			Patchy			
Regeneration:	1. Spp.	BF		Height	3		2. Spp.	RM		Height	6			
	3. Spp.			Height			4. Spp.			Height				
GROUND OBSERVATIONS														
Ground Vegetation Species Present:	AL, chokecherry, mountain ash, raspberry, fireweed alternate leaved dogwood (elderberry to E, blackberry S) noted striped maple													
Ground Hemlock	Y / N		X											
Invasive Species Present	Y / N		X		If yes then what species: _____									
Site Indicators	Y / N				If yes then what species: _____									
ENVIRONMENTAL OBSERVATIONS														
Water Course	Bog		Pond		Stream		X		Seeps			Beaver Present	Y / N	X
Drainage:	Poor	X		Moderate	X		Good	X		Excellent	X		Erosion Control Required	Y / N
Snag Trees:	Adequate		X		Inadequate									
Coarse Woody Material:	Adequate				Inadequate		X							
Dens	Nests (Raptors, songbirds, etc.) _____													
Wildlife Observed	chickadee feeding on LT snag to N of bridge													
Comments	wild apple, beaked hazel, mountain ash, choke, WS snags (a couple), stream 3' width													
STAND PRESCRIPTION														
No Treatment				Regeneration Cut				Crop Tree Release				Block Cut		
Shelterwood Cut				Selection Cut				Patch Cut				Strip Cut		
Commercial Thinning				Afforestation				Site Preparation	X		Salvage			
Pre-commercial Thinning				Reforestation	X		Riparian Zone Mgmt							
Pln. Maint.	Y / N				Stems/Ha									
Comments:	Alder flood plane, choke cherry at edges, old field WS, few BF, silt deposits, 3' stream width, 15m flood plain, some BF, need plant in riparian zone N for wildlife, noted BE, let residual WS decline naturally, old page wire on boundary, noted issue with runoff from agriculture field to north on drain gully from highway culvert (farm terrace/drainage project completed to address), hurricane Fiona windfall and salvage 2023 (extensive damage), reforest 2023, enrich plant riparian zone, diversity													

Appendix G. Plantation Map with Contour Lines



Appendix H. Work Completed

activity_number	treatment_code	amount_completed	treatment_date	treatment_description
	11	1	9/19/2018	Landing Construction
0	110	4.75	10/28/1999	Commercial Softwood< 5000 /Ha
0	110	1.57	1/4/2000	Commercial Softwood< 5000 /Ha
0	110	1.5	1/4/2000	Commercial Softwood< 5000 /Ha
0	110	1.72	1/4/2000	Commercial Softwood< 5000 /Ha
0	110	1.72	1/10/2001	Commercial Softwood< 5000 /Ha
0	110	4.8	1/10/2001	Commercial Softwood< 5000 /Ha
0	110	4.75	1/10/2001	Commercial Softwood< 5000 /Ha
	110	2.18	7/8/2014	Commercial Softwood< 5000 /Ha
3220541	12A	0.1	10/3/2022	Hiking Trail
	15	0.1	9/26/2022	Road right of way cutting
	15	0.1	6/16/2020	Road right of way cutting
	15	1.42	6/2/2016	Road right of way cutting
0	16	0	2/12/1999	Misc. Road Maintenance
0	16	2.98	7/21/2000	Misc. Road Maintenance
	16	1.55	5/27/2022	Misc. Road Maintenance
	16A	1.6	5/22/2020	Manual roadside trimming (brush saw)
2120509	16A	1.58	7/10/2012	Manual roadside trimming (brush saw)
0	16B	1.7	4/1/2005	Mechanical roadside trimming
0	16B	1.7	11/19/2008	Mechanical roadside trimming
	16B	1.58	7/8/2015	Mechanical roadside trimming
	16B	1.6	6/23/2020	Mechanical roadside trimming
3190525	16B	1.6	6/5/2019	Mechanical roadside trimming
3190520	16B	1.6	6/5/2019	Mechanical roadside trimming
3190521	16C	120	6/12/2019	Shale fill and leveling
3190526	16C	120	6/12/2019	Shale fill and leveling
	16C	70	3/1/2021	Shale fill and leveling
	17B	1	8/3/2018	Stream Crossing Maintenance
0	2	19	1/29/2002	Fill
0	2	29	11/16/1993	Fill
0	2	9	10/3/1995	Fill
2990311	23B	1.21	2/8/1999	Rhome Disc Double Pass - Per Ha
2960000	29	1.6	1/15/1996	Raking Crawler Tractor-Root Rake:per Ha
2885501	30B	1003	8/2/1993	Manual Site Preparation per Site (Hawk)
2845701	30B	2580	8/2/1993	Manual Site Preparation per Site (Hawk)
	30B	164	10/10/2018	Manual Site Preparation per Site (Hawk)
	30B	60	10/10/2018	Manual Site Preparation per Site (Hawk)
3190081	30B	1073	6/25/2019	Manual Site Preparation per Site (Hawk)
3180121	30B	1514	6/25/2018	Manual Site Preparation per Site (Hawk)
	320	1	10/9/2018	Provincial Forest Sign Installation
1170579	400A	10	11/4/2016	Chainsaw Training
1160566	400A	11	11/18/2016	Chainsaw Training
1170582	400A	5	6/9/2017	Chainsaw Training
1170583	400A	10	11/10/2017	Chainsaw Training
1170586	400A	9	11/24/2017	Chainsaw Training
	400A	5	6/17/2016	Chainsaw Training
1160551	400A	6	6/24/2016	Chainsaw Training
1140651	400A	5	10/10/2014	Chainsaw Training
	400A	8	5/2/2014	Chainsaw Training
1130589	400A	5	9/13/2013	Chainsaw Training
1130590	400A	9	11/22/2013	Chainsaw Training
1130591	400A	11	11/8/2013	Chainsaw Training
	400A	1	6/26/2017	Chainsaw Training
	400A	11	11/9/2012	Chainsaw Training
	400A	10	11/23/2012	Chainsaw Training
	400A	10	11/9/2012	Chainsaw Training
0	43B	2.16	5/25/2005	Anchor Chain:Skidder:Primary: per Ha
0	4A	1	11/16/1993	Stream crossing 1;(0 - 1.9M2 - 9100kgs)
0	4A	0	11/16/1993	Stream crossing 1;(0 - 1.9M2 - 9100kgs)
2845701	50CF	1.6	8/2/1993	FILL PLANT AREA - CENTRAL
2885501	50CF	0.53	8/2/1993	FILL PLANT AREA - CENTRAL
2020313	51C	2232	5/25/2005	BLACK SPRUCE - CENTRAL

2885501	54CF	1003	8/2/1993	FILL PLANT BALSAM FIR - CENTRAL
2030322	55C	2989	5/25/2005	WHITE SPRUCE - CENTRAL
2845701	55CF	2580	8/2/1993	FILL PLANT WHITE SPRUCE - CENTRAL
3180121	55W	1449	6/25/2018	WHITE SPRUCE - WESTERN
3190081	55W	1008	6/25/2019	WHITE SPRUCE - WESTERN
	55WF	150	5/28/2021	FILL PLANT WHITE SPRUCE - WESTERN
	55WF	150	5/28/2021	FILL PLANT WHITE SPRUCE - WESTERN
2990311	56C	0	10/28/1999	WHITE PINE - CENTRAL
2020311	56C	3120	5/25/2005	WHITE PINE - CENTRAL
3190081	56EI	65	6/25/2019	INTERPLANT WHITE PINE - EASTERN
	56WF	40	5/28/2021	FILL PLANT WHITE PINE - WESTERN
	56WF	120	5/28/2021	FILL PLANT WHITE PINE - WESTERN
3180121	56WI	65	6/25/2018	INTERPLANT WHITE PINE - WESTERN
	58WI	45	10/10/2018	INTERPLANT YELLOW BIRCH - WESTERN
	58WI	90	10/10/2018	INTERPLANT YELLOW BIRCH - WESTERN
3190081	58WI	45	10/30/2019	INTERPLANT YELLOW BIRCH - WESTERN
	63W	30	9/28/2021	SUGAR MAPLE - WESTERN
	63WI	22	10/10/2018	INTERPLANT SUGAR MAPLE - WESTERN
	64W	30	9/28/2021	RED OAK - WESTERN
	64WI	15	10/10/2018	INTERPLANT RED OAK - WESTERN
	64WI	30	10/10/2018	INTERPLANT RED OAK - WESTERN
3190081	64WI	15	10/30/2019	INTERPLANT RED OAK - WESTERN
	65WI	22	10/10/2018	INTERPLANT WHITE ASH - WESTERN
2020312	67C	3055	5/25/2005	NORWAY SPRUCE - CENTRAL
2030321	67C	3596	5/25/2005	NORWAY SPRUCE - CENTRAL
	81	1.08	9/11/2014	Plantation Maintenance: Mowing
	81	0.98	9/19/2014	Plantation Maintenance: Mowing
	81	0.52	9/30/2014	Plantation Maintenance: Mowing
	81	0.72	9/27/2014	Plantation Maintenance: Mowing
	81	1.27	9/26/2014	Plantation Maintenance: Mowing
2873701	82B	0.25	10/4/1990	Herbicide:Broadcast : 1st Treatment
2885501	82B	0.25	10/4/1990	Herbicide:Broadcast : 1st Treatment
2875501	88A	0.53	9/3/2002	Class I : Manual : 0 -5000/Ha <6 Metres
3180121	88C	1.05	2/11/2022	Class 3 : Manual : 10001-15000/Ha <6 Metres
	90	0.58	6/7/2022	Selective Cut
1170540	90	3.53	6/26/2017	Selective Cut
	90	3.53	6/26/2017	Selective Cut
	91	1.64	10/25/2017	Strip Cut
	91	1	10/3/2014	Strip Cut
	91	0.72	10/3/2014	Strip Cut
	91	1	8/8/2014	Strip Cut
1170542	91	1.64	10/25/2017	Strip Cut
	91	0.6	6/12/2018	Strip Cut
	92	5.5	12/15/2022	Clearcut Block
0	92	2.16	9/17/2002	Clearcut Block
0	92	2.49	10/30/2001	Clearcut Block
2960000	92	1.6	1/19/1996	Clearcut Block
0	95	0	1/10/2001	Special Projects
0	95	0	1/10/2001	Special Projects
0	95	0	1/10/2001	Special Projects
0	95	18	6/20/2006	Special Projects
	95	1	9/26/2014	Special Projects
	95	30	10/5/2011	Special Projects
0	95	127.5	7/2/2004	Special Projects
	95	382	8/2/2018	Special Projects
	97	43.46	7/25/2018	Wood Extraction
1170593	97	8.02	6/26/2017	Wood Extraction
1170596	97	18.56	6/26/2017	Wood Extraction
1170598	97	33.24	2/15/2018	Wood Extraction
2120510	97	12.84	7/23/2012	Wood Extraction
	97	58.04	9/10/2014	Wood Extraction
	97	37.57	9/26/2014	Wood Extraction
	97	6.17	7/7/2016	Wood Extraction