

Date: June 22, 2023

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



Woodlot Management Plan

Property Number: 225326

Location: Brookvale

Table of Contents

Goals and Management Objectives	1
Property Overview	2
Location.....	2
Past Information	2
Property Information	2
Wetland and Watercourses	3
Property Access.....	3
Property Boundaries	4
Fire Protection	5
Planting and Silviculture	5
Proposed Treatments	6
Table 1. Proposed Treatment Summary.....	7
Appendices.....	8
Appendix A. Map of Property with Locator Map.....	9
Appendix B. 1935 Aerial Photography	10
Appendix C. 1968 Aerial Photography	11
Appendix D. 2010 Corporate Land Use Inventory	12
Appendix E. Forest Inventory Codes	13
Appendix F. Stand Tally Sheets from on the Ground Assessment.....	14
Appendix G. Plantation Map with Contour Lines.....	20
Appendix H. Work Completed	21

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 # 225326 is located on Route #13, in the community of Brookvale, P.E.I., (Appendix A). This property contains the main parking lot and lodge for the NORDIC Centre. It includes the biathlon shooting range as well as Nordic ski trails. The parking lot and Nordic lodge are the main entrance for mountain biking, cross-country skiing, snowshoeing, winter fat-biking and the snow-sliding hill. The total area of this property is 57.9 hectares (142.99 acres) and the midpoint of the property is Latitude N 46.26972 decimal degrees, Longitude W -63.42111 decimal degrees.

Past Information

Local records and previous aerial photography show that the northern portion (approximately 47.1 hectares) of this property was used for agricultural purposes early in the 20th century. To better illustrate this 1935 and 1968 photography can be seen in Appendix B and Appendix C.

Property Information

The information in Appendix D has been taken from the 2020 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 main streams or watercourses on this property (Appendix A). A few small feeder springs were also noted.

The northern stream that crosses the properties flows generally west to east. This stream eventually flows through a culvert located at the Downhill Ski Park to the east. This northern stream is part of the West River watershed. Approximately 37 hectares (91.4 acres) of these two properties drains into the West River Watershed. Some windfall from hurricane Fiona were removed from the stream to limit “damming” by debris and obstructions for fish passage.

The southern stream section is located on the Desable River watershed. Approximately 43 hectares (106.2 acres) of the land located on these two properties drains into the Desable River to the west.

Property Access

There are no dedicated roads although access is very good utilizing all the trail systems that can serve as access for motorized vehicles. Cross-country ski trails can serve as roads during the summer season but are groomed for winter recreation. PEI Parks details approximate recreational trail lengths in the Brookvale properties complex as:

- 45km +/- Nordic ski trails
- 10km +/- Winter “Fat-Bike” trails
- 7km Snowshoe trails
- 20km+ Mountain Bike trails (*see following photo)

Property Boundaries

The properties northern boundary is located on Rte.# 13. The eastern boundary is shared with “privately owned” land. The western boundary is shared with another P.E.I. Government property.

This parcel contains the biathlon shooting range and the X-Country Ski Lodge complex named in honour of Mark Arendz. These parcels hosted events for the Feb.2023, Canada Winter Games. The following pictures are from the Canada Games event in 2023. (Some Fiona windfall salvage area can be noted in the background where windfall trees were removed to open trails and allow the event to be held.)





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 Forests, Fish and Wildlife Division and our local community fire brigades. In the Western District, there are four-wheel drive forestry fire trucks housed at 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 also based out of Charlottetown. The stream that flows through the property would be a suitable site to setup a portable fire pump system.

*Following hurricane Fiona, work was completed to reduce fuel load and fire danger adjacent to nearby private homes. Salvage harvest operations reduced fire risk associated with wildfire and improved access and public safety.

Planting and Silviculture

There are no plantations on the property that appear on current mapping. However, planting was completed in various years by community groups (Boy Scouts) and some additional enhancement has been completed by staff. A prescription of this management plan is to complete mapping of these “unmapped” plantations and have them included in the current database. 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 H.

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

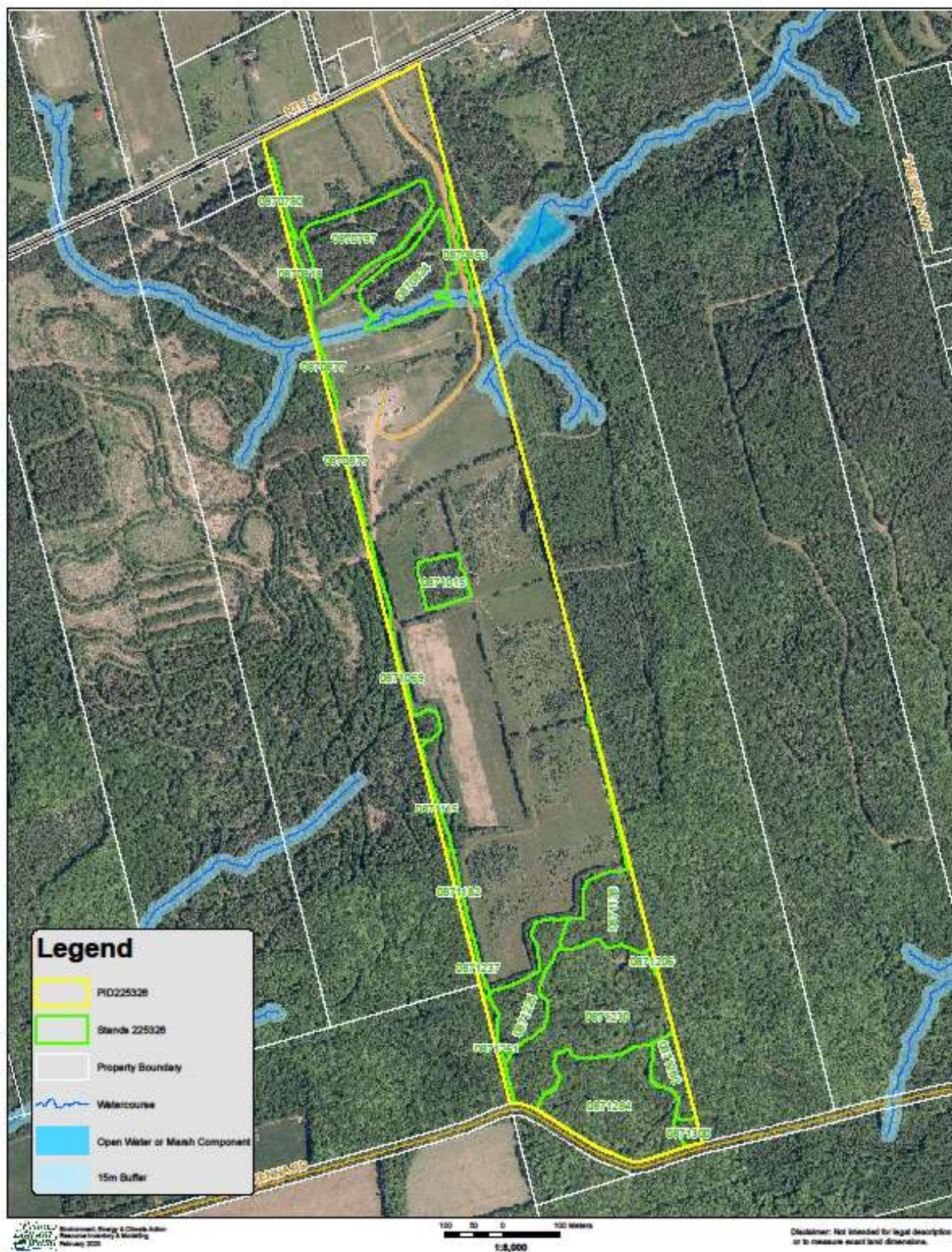
representative at the District Forestry Office in Wellington.

Table 1. Proposed Treatment Summary.

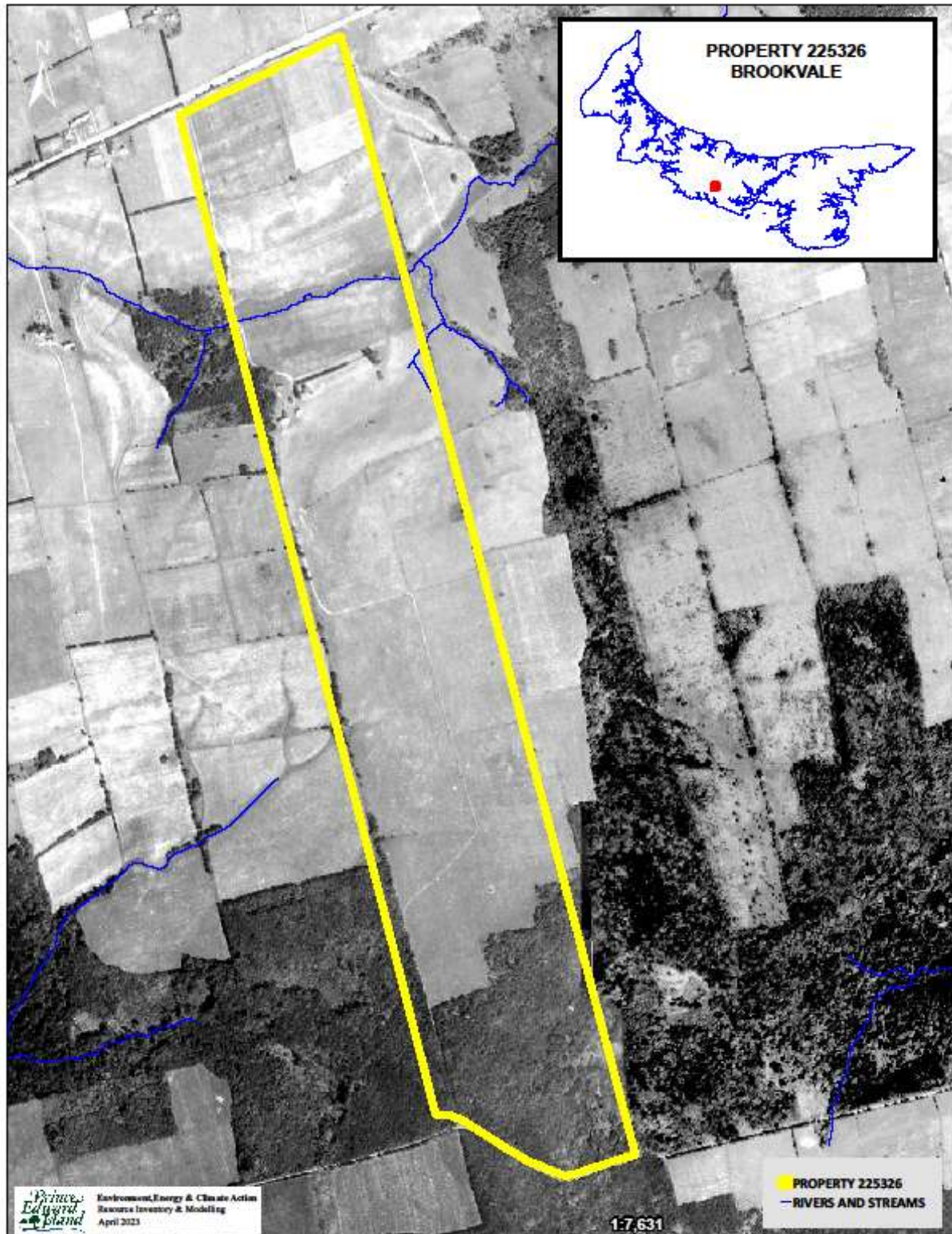
Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	2018 Eco-Manual Reference	Comments	Goals
Road	Road Maintenance	2023		Pg 12	Brush cutting, side trimming of recreational trails	Improve management access
871230, 871225, 871138, 871284, 871260	Crop Tree Release	2023...	11.31 ha	Pg 23	No treatment overall for recreation and aesthetics; very low density CTR on a few quality stems	Increase development on targeted high quality stems
871300	Crop Tree Release	2023...	0.17 ha	Pg 23	No treatment overall for recreation and aesthetics; very low density CTR on a few quality stems	Increase development on targeted high quality stems
871015	Invasive Species Removal	2023	0.63 ha	Pg 38	Scotch Pine invasive noted developing, girdle to create snag and control	Protect natural biodiversity, control invasive spread
870797, 870824	Manual Site Preparation & Enrichment Planting	2023...	4.03 ha	Pg 14 & 17	Improve aesthetics, introduce diversity, low density planting	Enhance diversity and aesthetics
*no stand #	Prepare GPS mapping and enter development in database	2023...	15.6 ha		Add plantations to database, GIS mapping	Document for management tracking
*no stand #	Manual Site Preparation & Enrichment Planting	2023...	15.6 ha	Pg 14 & 17	Improve aesthetics, introduce diversity, low density spot planting	Enhance diversity and aesthetics

Appendices

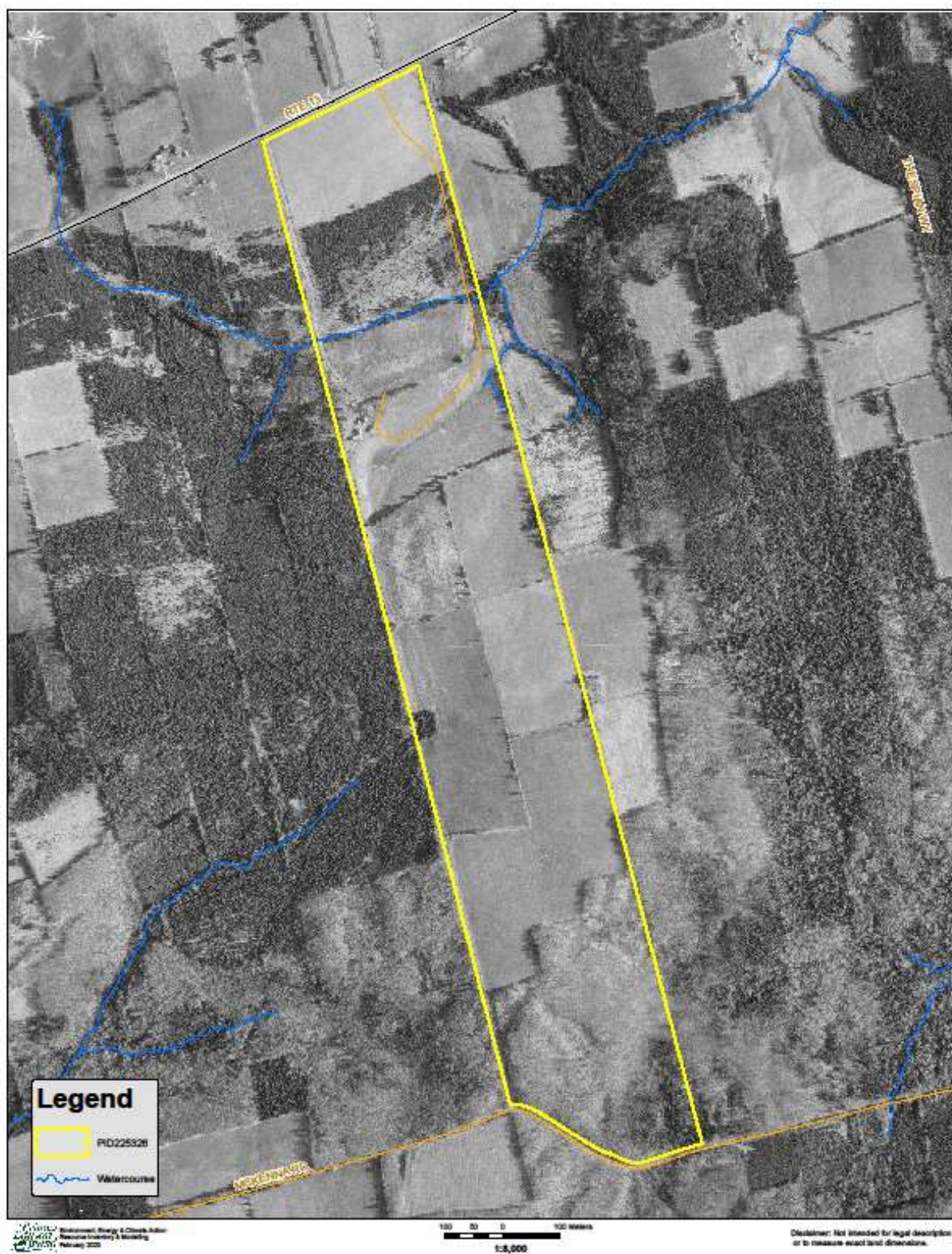
Appendix A. Map of Property with Locator Map



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>
0870797	WS	10		0		0		0		0	16	75	2.22	WSPR
0870780	WS	10		0		0		0		0	16	85	0.12	WSPR
0870824	WS	9	WB	1		0		0		0	14	65	1.81	WSPR
0871015	WS	10		0		0		0		0	5	80	0.63	WSPR
0871300	RP	6	RM	2	WB	2		0		0	10	80	0.17	SWIH
0870818	WS	9	WB	1		0		0		0	18	60	0.12	WSPR
0871069	WS	6	WB	2	RM	2		0		0	17	75	0.45	SWIH
0871138	SM	4	YB	3	RM	2	WB	1		0	19	90	1.57	THMX
0871260	SM	5	YB	3	RM	2		0		0	19	90	0.60	THMX
0871206	SM	4	RM	3	PO	1	YB	1	WB	1	19	85	0.05	THMX
0871237	WB	4	RM	3	SM	2	WS	1		0	16	85	0.11	IHMX
0871261	WB	3	SM	2	YB	2	RM	2	BF	1	17	85	0.19	THMX
0870863	WS	4	WB	2	RM	2	YB	2		0	15	75	0.21	IHSW
0870877	YB	4	WB	2	RM	2	WS	2		0	19	80	0.15	THMX
0871182	SM	4	WB	2	RM	2	PO	1	YB	1	17	95	0.15	THMX
0871230	SM	5	YB	2	RM	2	WB	1		0	19	85	4.49	THMX
0871284	SM	4	RM	3	YB	2	WB	1		0	20	95	3.37	THMX
0871225	RM	5	WB	2	SM	2	YB	1		0	18	90	1.28	IHMX
0871115	WS	6	WB	2	RM	2		0		0	15	65	0.16	

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 #		871230 & 871225 & 871138 & 871284 & 871260							
PROPERTY #		225326			AREA		11.31 ha		Date		22 / 6 / 2023			
											D M Y			
SAMPLE TREE INFORMATION														
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT				
1	SM	75	36	18		4	YB	75	37	18				
2	RM	75	37	18		5	BE	40	16	14				
3	SM	75	23	17		6	RM	40	18	16				
STAND INFORMATION														
Stand Basal Area	SW		M ² /Ha	SWSL		M ² /Ha	HW		M ² /Ha	HWSL		M ² /Ha		
Species and (%)	RM30 %	SM20 %	BE20 %	YB20 %	BE (WB, PO pockets)									
Even-aged	Uneven-aged										Biomass			
Slope	6 %	Aspect	E											
Stand Origin:	Old Field	Partial Cut		X	Burn	Unploughed		X						
	Windfall	Non Forest			Ploughed									
	Clear Cut	X	Unknown											
Stand Maturity Class:	Regeneration		X	Immature	Mature		X	Over-mature						
Stand Stocking:	Understocked		Fully Stocked		X	Overstocked		Patchy						
Density:	SW	HW		1,750										
Advanced Regeneration:	Understocked		Fully Stocked		Overstocked		X	Patchy		X				
Regeneration:	1. Spp.	BE	Height	6	2. Spp.	striped	Height	7						
	3. Spp.	YB	Height	8	4. Spp.		Height							
GROUND OBSERVATIONS														
Ground Vegetation Species Present:														
Ground Hemlock Y / N														
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	bluejay, coyote track,													
Comments	pocket PO (18cm/15m) to west, a couple of hardwood snags, (fat bike, ski trails throughout)													
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:	BE understory in sections, BE content diseased, could select crop tree release to give YB a chance to compete with BE, to the east and northeast more BE content (30cm/15m) not good form, northeast shorter stems, form moderate quality, some scattered SM and WB, not as rich to northeast, to west on flat area larger diameters, full understory of small hardwoods dominated by BE (6000 stems/ha), large crowns to north, light crop tree release to encourage resiliency on quality, younger north, BE tolerant to regenerate in understory, (87140 old clearcut 40 years ago, same content & prescription) minimal windfall post hurricane Fiona, some selected trees, clear trails and leave natural													

STAND TALLY SHEET														
CRUISER		L. Stevenson			STAND #		871300			PLANTATION #				
PROPERTY #		225326			AREA		0.17 ha		Date		22 / 6 / 2023			
											D M Y			
SAMPLE TREE INFORMATION														
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT				
1	PC		14	11		4	YB		16	14				
2	WB		23	16		5	RM		14	14				
3	WB		16	14		6								
STAND INFORMATION														
Stand Basal Area		SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha		
Species and (%)		RM30 %	WB20 %	YB20 %	PC20 %	striped Maple, SM,BE								
Even-aged X		Uneven-aged				Biomass								
Slope		%	Aspect		L									
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed X						
		Windfall		Non Forest				Ploughed						
		Clear Cut X		Unknown										
Stand Maturity Class:		Regeneration		Immature X		Mature		Over-mature						
Stand Stocking:		Understocked		Fully Stocked X		Overstocked		Patchy						
Density:		SW	HW		2,000									
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:		(snow cover) mountain maple, elderberry noted,												
Ground Hemlock		Y / N												
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.)												
Wildlife Observed														
Comments		adjacent to MacIssac Rd,												
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:		hardwood clearcut, boundary marked with blue ribbon/old blazes, clearcut extends from adjacent												
		private land with RP planted, stand is coppice and regeneration origin typical with hardwood cc,												
		provides diversity of cover and some edge effect, can be left at this time to develop naturally, a light												
		crop tree release just focused on a few of the best quality stems could be completed (small scale!),												
		generally leave the area natural to provide privacy and cover adjacent to road and trail systems												

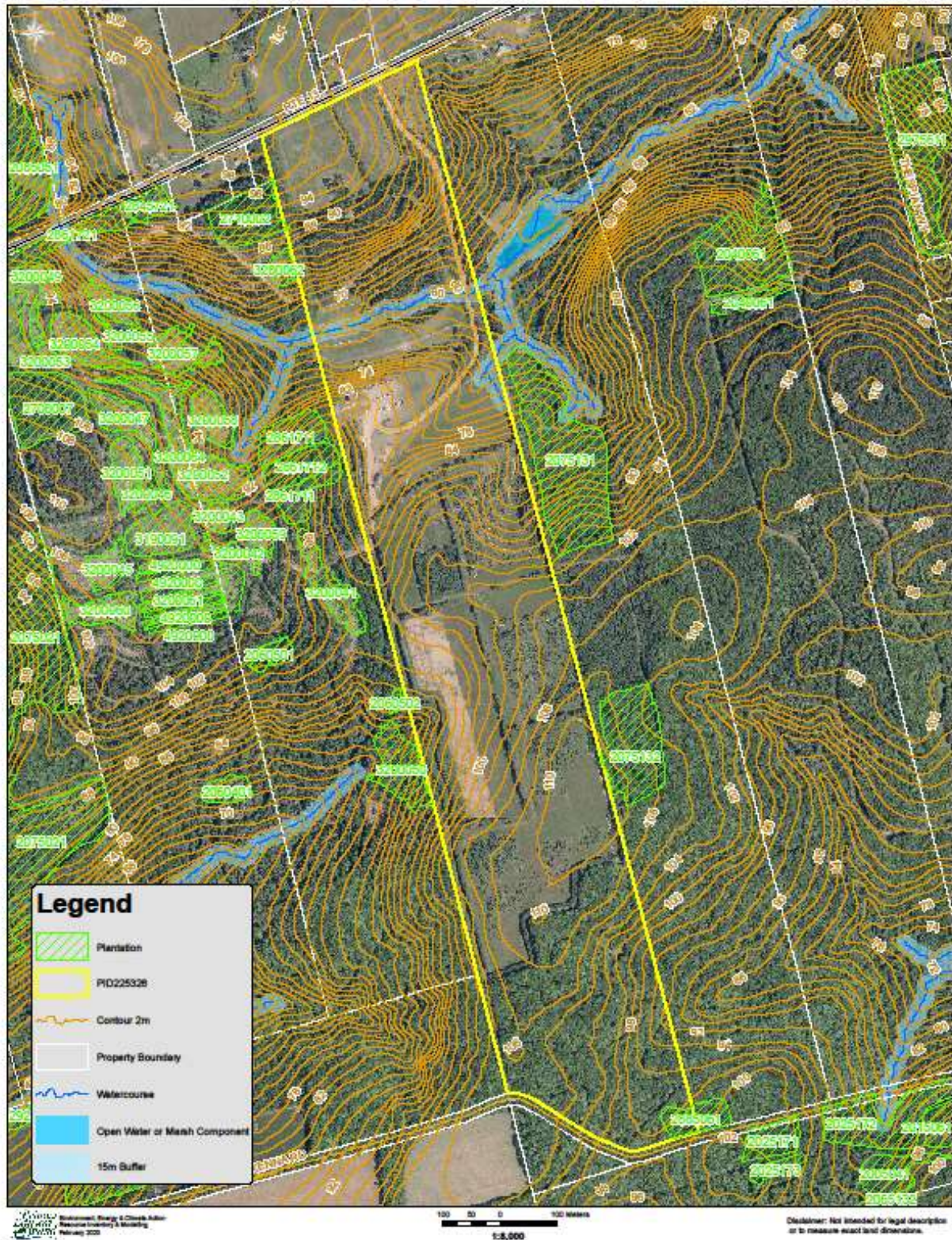
STAND TALLY SHEET												
CRUISER	L. Stevenson		STAND #	871015		PLANTATION #	*Boy Scout (WS)					
PROPERTY #	225326 (Brookvale)		AREA	0.63 ha		Date	22 /	6 /	2023			
							D	M	Y			
SAMPLE TREE INFORMATION												
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	WS		14	10		4						
2	WS		12	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 (%)	WS100 %		%		%		(one LA and one SP)					
Even-aged	Uneven-aged						Biomass					
Slope	4 %	Aspect	NW									
Stand Origin:	Old Field		Partial Cut		Burn		Unploughed					
	Windfall		Non Forest				Ploughed					
	Clear Cut		Unknown									
Stand Maturity Class:	Regeneration			Immature		Mature		Over-mature				
Stand Stocking:	Understocked			Fully Stocked		Overstocked		Patchy				
Density:	SW	4,250	HW	250								
Advanced Regeneration:	Understocked			Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.		Height		2. Spp.		Height					
	3. Spp.		Height		4. Spp.		Height					
GROUND OBSERVATIONS												
Ground Vegetation Species Present:	(snow) noted alder and willow but few											
Ground Hemlock	Y / N											
Invasive Species Present	X	Y / N		If yes then what species:	Scotch Pine stem to north (girdle)							
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		Excellent		Erosion Control Required	Y / N		
Snag Trees:	Adequate		Inadequate									
Coarse Woody Material:	Adequate		Inadequate									
Dens		Nests (Raptors, songbirds, etc.)										
Wildlife Observed	snowshoe hare, red squirrel, finch (*not positive id),											
Comments	good dense low cover for wildlife, a few openings											
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:	southwest corner is patch of GB with occasional WB (2m tall WS naturals under), northeast corner											
	dense WS plantation with dense thicket of naturals under, leave to develop naturally, *girdle SP											
	invasive, growth better in some sections, may be dependant on drainage (possible shale deposit at											
	crest of hill limiting soil moisture?),											

STAND TALLY SHEET													
CRUISER		L. Stevenson		STAND # 870797 & 870824				PLANTATION #					
PROPERTY #		225268 & 225284		AREA		4.03 ha		Date		22 / 6 / 2023			
										D M Y			
SAMPLE TREE INFORMATION													
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%		
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 (%)		%		%	%		%	(WS)					
Even-aged		Uneven-aged										Biomass	
Slope		15 %	Aspect	S/SE									
Stand Origin:		Old Field	X	Partial Cut		Burn		Unploughed					
		Windfall	Fiona	Non Forest				Ploughed	X				
		Clear Cut	X	Unknown									
Stand Maturity Class:		Regeneration		X	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:													
Ground Hemlock		Y / N	X										
Invasive Species Present		X	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		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		heavy harvest debris,											
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:		*hurricane Fiona emergency salvage harvest site (biathlon/cross-country ski trails throughout), trail edge has advanced 10m tall RO, WA, WP, YB that can provide seed; some developing patches, most open harvest site, heavy slash load, removed from adjacent homes to protect from fire, salvaged for Canada Games 2023, plant lower density to develop cover, enhancement plant aesthetics and diverse											

STAND TALLY SHEET													
CRUISER		L. Stevenson		STAND #		open field *no stand#		PLANTATION #					
PROPERTY #		225326		AREA		4.4 ha		Date		22 / 6 / 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 (%)		%		%	%		%						
Even-aged		Uneven-aged								Biomass			
Slope 4to10 %		Aspect SW,W,NW											
Stand Origin:		Old Field	X	Partial Cut		Burn		Unploughed					
		Windfall		Non Forest				Ploughed	X				
		Clear Cut		Unknown									
Stand Maturity Class:		Regeneration			Immature		Mature		Over-mature				
Stand Stocking:		Understocked			Fully Stocked		Overstocked		Patchy				
Density:		SW		HW									
Advanced Regeneration:		Understocked			Fully Stocked		Overstocked		Patchy				
Regeneration:		1. Spp.			Height		2. Spp.		Height				
		3. Spp.			Height		4. Spp.		Height				
GROUND OBSERVATIONS													
Ground Vegetation Species Present:		grasses											
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									
Coarse Woody Material:		Adequate		Inadequate									
Dens		Nests (Raptors, songbirds, etc.)											
Wildlife Observed		open field tilled and planted to create habitat for nesters (bobolink type habitat)											
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:		leaving this section as open grass-land to add some habitat for species that require this type of											
		habitat (this parcel is associated with recreational property in Brookvale Parks complex), area is											
		on the central/western portion of the property											

STAND TALLY SHEET														
CRUISER		L. Stevenson			STAND # *various (no stand #)			PLANTATION # *various Boy Scouts						
PROPERTY #		225326			AREA 15.6 ha			Date		# / 2 / 2020				
										D M Y				
SAMPLE TREE INFORMATION														
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT				
1	WS	4		0.5		4	RM				1			
2	WS	8		2.5		5	SM				1			
3	WS	12		6		6	WA				1			
STAND INFORMATION														
Stand Basal Area		SW	M ² /Ha	SWSL	M ² /Ha	HW	M ² /Ha	HWSL	M ² /Ha					
Species and (%)		WS70	%	%	%	RM,Wi,WB,RO,SM								
Even-aged *X		Uneven-aged			Biomass									
Slope 9 to 0 %		Aspect L(NE,NW)												
Stand Origin:		Old Field X	Partial Cut	Burn	Unploughed									
		Windfall	Non Forest		Ploughed X									
		Clear Cut	Unknown											
Stand Maturity Class:		Regeneration X			Immature X	Mature	Over-mature							
Stand Stocking:		Understocked			Fully Stocked	Overstocked	Patchy X							
Density:		SW *750	HW											
Advanced Regeneration:		Understocked			Fully Stocked	Overstocked	Patchy X							
Regeneration:		1. Spp.	Height		2. Spp.	Height								
		3. Spp.	Height		4. Spp.	Height								
GROUND OBSERVATIONS														
Ground Vegetation Species Present:		grass, golden rod, alternate-leaf dogwood, willow, mountain ash,												
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	Excellent	Erosion Control Required		Y / N						
Snag Trees:		Adequate	Inadequate											
Coarse Woody Material:		Adequate	Inadequate											
Dens		Nests (Raptors, songbirds, etc.)												
Wildlife Observed		sparrow												
Comments		patches of open grassland with sections of immature developing cover, recreation trails												
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			Riparian Zone Mgmt									
Pln. Maint.		Y / N	Stems/Ha											
Comments:		no number assigned, mix of developing immature natural WS on old field at various ages, also												
		includes small patches planted by boy scouts between 2014 to 2019 estimated, some enhancement												
		planting continuing to add diversity, (*GPS and map files of specific plantations are being prepared												
		to document locations and ages of plantings), mix of open patches and fully stocked, good vigor,												
		recreational trails in sections, planted hedge along west boundary (trail)												

Appendix G. Plantation Map with Contour Lines



Appendix H. Work Completed

<u>activity #</u>	<u>treatment code</u>	<u>amount completed</u>	<u>date completed</u>	<u>treatment description</u>
	15	0.34	9/30/2020	Road right of way cutting
	16	0.1	6/7/2021	Misc. Road Maintenance
	16B	2.4	6/16/2020	Mechanical roadside trimming
	16D	0.2	3/19/2020	Grading
2190505	16J	100	8/22/2019	Mulching
	2	1	5/26/2015	Fill
	2	1	5/26/2015	Fill
	2	1	5/26/2015	Fill
	2	20	5/26/2015	Fill
	28	3	6/19/2015	Duff Removal
	28	1.5	5/17/2019	Duff Removal
	31	1	6/5/2018	Farm Equipment: per Ha
	430	3	5/26/2015	Garbage Cleanup
	55E	1200	6/13/2017	WHITE SPRUCE - EASTERN
	55W	1200	6/12/2018	WHITE SPRUCE - WESTERN
	55W	1325	6/19/2019	WHITE SPRUCE - WESTERN
	55W	1325	6/19/2019	WHITE SPRUCE - WESTERN
	55WF	260	6/13/2018	FILL PLANT WHITE SPRUCE - WESTERN
	58WF	65	6/13/2018	FILL PLANT YELLOW BIRCH - WESTERN
	64E	300	9/25/2015	RED OAK - EASTERN
	64E	250	10/3/2016	RED OAK - EASTERN
2170500	64E	250	10/4/2017	RED OAK - EASTERN
	75WF	65	6/13/2018	FILLPLANT RED MAPLE - WEST
	75WI	45	6/20/2019	INTERPLANT RED MAPLE - WEST
	90	0.1	11/4/2022	Selective Cut
	90	1.76	5/27/2015	Selective Cut
	95	1200	6/24/2015	Special Projects
	95	1	6/13/2016	Special Projects
	95	3	6/13/2016	Special Projects
	95	2	6/13/2016	Special Projects
	95	5	9/22/2020	Special Projects
	95	5	9/22/2020	Special Projects
2190503	95	5	9/11/2019	Special Projects
2190504	95	1	5/16/2019	Special Projects