

Date: December 7, 2021

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



Woodlot Management Plan

Property Number: 38950

Location: Duvar

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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 #38950 is located on the Duvar Road (unmaintained section), in the community of Duvar, P.E.I., (Appendix A). The total area of this property is 33.2 hectares (82 acres) and the midpoint of the property is Latitude N 46.74467 decimal degrees, Longitude W -64.27664 decimal degrees.

Past Information

Local records and previous aerial photography show that this property has remained as forested land; however, the 1935 aerial photography shows extensive harvesting activity on the property and the 1968 photography shows that harvest activity is ongoing. To better illustrate this 1935 and 1968 photography can be seen in Appendix B. Harvest activity and patterns have created the forest species and age class structure seen on the property today.

Property Information

The information in Appendix C has been taken from the 2010 Corporate Land Use Inventory. An explanation of forestry code meanings can be seen in Appendix D. 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 E) 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 F).

Wetland and Watercourses

Carruthers Brook flows in an easterly direction through the property into the Mill River. An unnamed tributary to Carruthers Brook is located in the northern part of the property. This observation can be viewed in Appendix A.

NAPA

Public Land Property 38943 to the west is designated under Natural Areas Protection Act (NAPA). Approximately 40 m along the west boundary of this property is also designated under NAPA. Apply a 60 m buffer to the NAPA area as per the NAPA designation.

Property Access

Access to this property south of the brook is via an unmaintained section of Duvar Rd. Access to the lands north of the brook is via a woods road through adjacent public lands. Unfortunately, the unmaintained public right-of-way and the woods road are badly damaged and not trafficable without extensive road work. Ongoing maintenance will then be required to keep the road useable. 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, re-ditching, and any other maintenance required to keep these roads usable. Existing roads on the property can be seen on Appendix A

Property Boundaries

This property is bounded on the south by the Duvar Road, west and east by public land, and north by private land.

Fire Protection

This property is located within the jurisdiction of the O’Leary 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 is a 900 gallon (gal) four-wheel drive forestry fire truck 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. A stream that flows through the property and adjacent public lands would be a suitable site to setup a portable fire pump system when water is present; however, access to the stream is very difficult without extensive road work.

Planting and Silviculture

There are three 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.

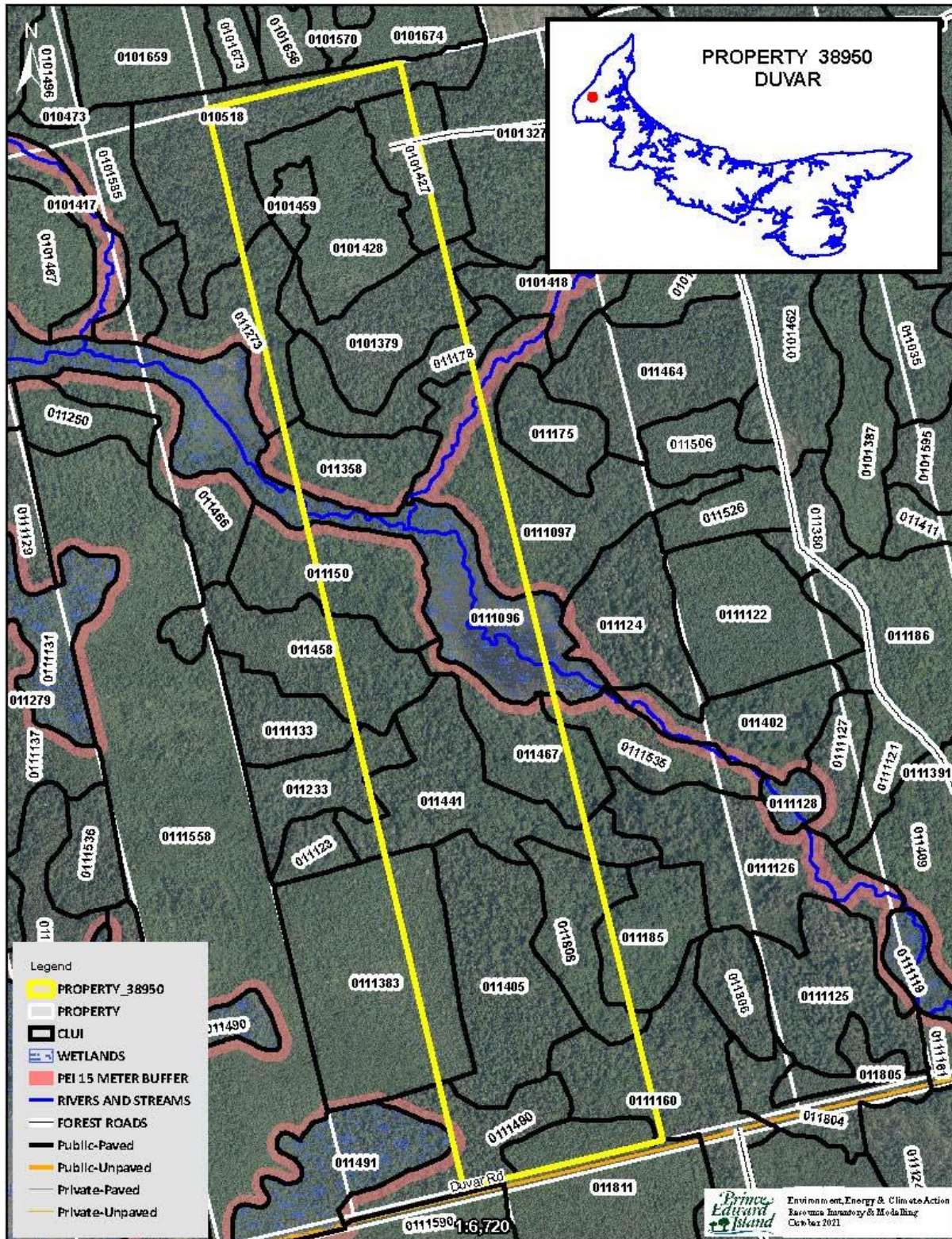
Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	2018 Eco-Manual Reference	Comments	Goals
Boundary Line	West boundary	2022	-	-	It appears that there may be a mapping discrepancy regarding the west boundary. The property to the west is public land so it is not critical; however, research of the location of the boundary should be conducted and it be marked in the field.	Identify west boundary
Road	Road maintenance	any	40 m	Pg 11, 12	This small section of road is in good shape but requires light road maintenance. Maintenance includes road brushing, fill, and grading.	Maintain road for wood hauling
NAPA	NAPA buffers	all	-	-	NAPA designation along the west boundary of the property. Follow any buffer requirements assigned under NAPA. Contact F&W for interpretation of where NAPA 60m buffer is to be applied and activities that can or cannot occur in that buffer.	Abide by NAPA designation parameters
Riparian	Watercourses and Wetlands	all	-	-	Retain a 15 m riparian area adjacent to all watercourses and wetlands.	Protect watercourse and wetland values

Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	2018 Eco-Manual Reference	Comments	Goals
PN 3965151 (11523)	Manual Plantation Maintenance	2022	1.2	Pg 17	SW severely suppressed. Eliminate undesirable competing vegetation as soon as possible	Release crop trees from hardwood competition
11490 111160 11405 11458 111097 11178 11358 101379 10518	Block Harvest	2023	14.2	Pg 30	These are overmature and mature SW dominated stands. Retain all RM and pockets of HW of any species for diversity and habitat. ECO-Manual opening size guidelines will be followed.	Salvage declining wood
11808 11441 11233 11467 11273	Block Harvest (modified)	2023	3.5	Pg 30	These are HW dominated stands. Harvest the SW component only and some of the WB and PO. Retain RM.	Salvage declining wood
11490 111160 11405 11458 111097 11178 11358 101379 10518	Site Preparation and Reforestation	2024	14.2	Pg 14, 16	Prepare plantable spots and plant a species suited to the site. If there is a good BS cone year at the time of harvest may want to leave these sites for 1 year for natural regen. Plant if natural regen doesn't establish.	Establish the site with crop trees
11808 11441 11233 11467 11273	Site Preparation and Reforestation	2024	3.5	Pg 14, 16	Prepare plantable spots and plant a species suited to the site. If there is a good BS cone year at the time of harvest may want to leave these sites for 1 year for natural regen. Plant if natural regen doesn't take establish.	Establish the site with crop trees
PN 3990051 (101427) PN 3990052 (101428)	Combination Manual Plantation Maintenance & Pre-Commercial Thinning	2024	4.9	Pg 17, 22	Site doing well. Small section HW dominated.	Reduce stems per hectare to improve growth of crop trees
101459	Pre-Commercial Thinning	2024	0.5	Pg 22	This is a naturally regenerated stand that requires thinning	Improve growth of crop trees
11490 111160 11405 11458 111097 11178 11358 101379 10518	Manual Plantation Maintenance	2027	14.2	Pg 17	Expect PO and GB competition. Maintain before trees become suppressed.	Improve growth of crop trees

Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	2018 Eco-Manual Reference	Comments	Goals
11808 11441 11233 11467 11273	Manual Plantation Maintenance	2027	3.5	Pg 17	Expect PO and GB competition. Maintain before trees become suppressed.	Release crop trees from hardwood competition
PN 3990051 (101427) PN 3990052 (101428)	Block Harvest	2028	1.0	Pg 30	Unsuccessful portion of plantation. Harvest HW for fuelwood. Retain RM.	Re-establish site in SW forest
PN 3990051 (101427) PN 3990052 (101428)	Site Preparation and Reforestation	2029	1.0	Pg 14, 16	Prepare plantable spots and plant a species suited to the site	Create plantable microsites
PN 3990051 (101427) PN 3990052 (101428)	Manual Plantation Maintenance	2033	1.0	Pg 17	Expect PO and GB competition. Maintain before trees become suppressed.	Release crop trees from hardwood competition

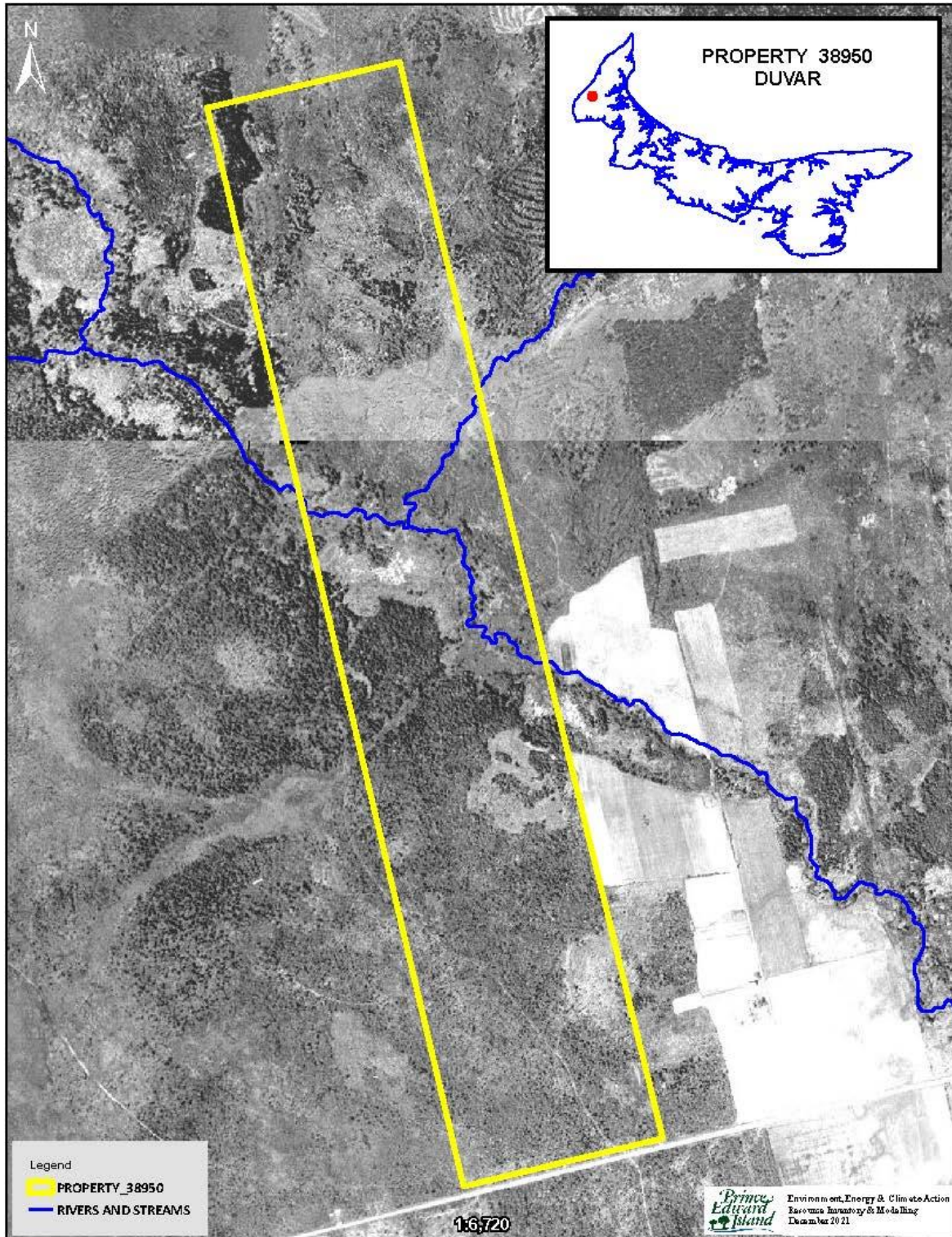
Appendices

Appendix A. Map of Property with Locator Map

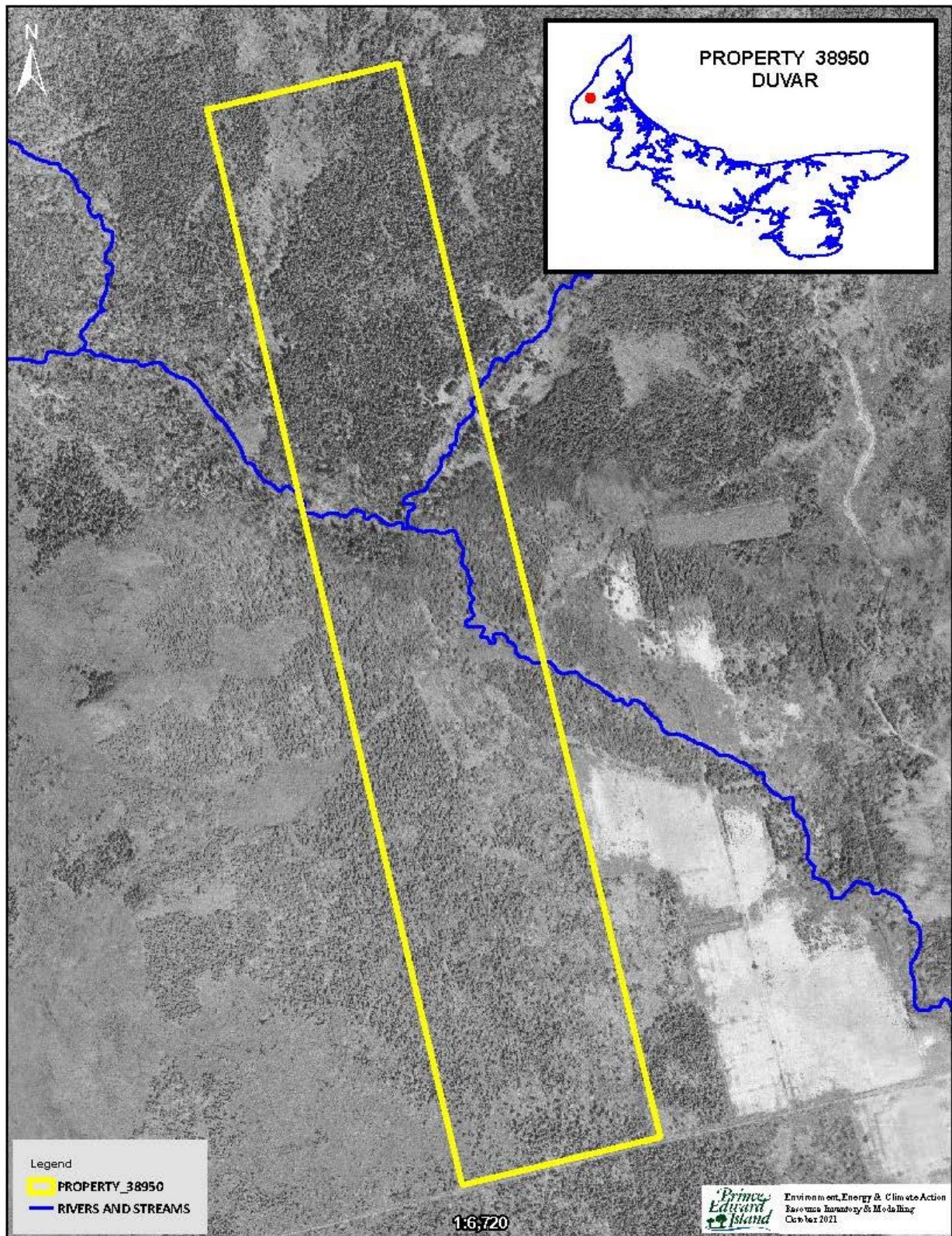


Appendix B. 1935 and 1968 Aerial Photography

1935 Aerial Photography



1968 Aerial Photography



Appendix C. 2010 Corporate Land Use Inventory

FIELDID	COV1	PER1	COV2	PER2	COV3	PER3	COV4	PER4	COV5	PER5	HT	HECTARES
0111096		0.00		0.00		0.00		0.00		0.00	0.00	3.63
0111811	WP	10.00		0.00		0.00		0.00		0.00	7.00	1.11
0101428	WP	7.00	WB	2.00	LA	1.00		0.00		0.00	6.00	4.01
0111491	LA	6.00	BS	3.00	BF	1.00		0.00		0.00	10.00	0.00
0111150	RM	3.00	BF	3.00	WS	2.00	PO	2.00		0.00	16.00	2.29
0111160	BS	4.00	WS	2.00	BF	2.00	RM	1.00	PO	1.00	15.00	1.56
0111458	RM	2.00	PO	2.00	BS	2.00	LA	2.00	BF	2.00	14.00	1.54
0112233	WS	4.00	RM	2.00	LA	2.00	PO	1.00	BF	1.00	14.00	0.46
0111405	BS	7.00	LA	2.00	RM	1.00		0.00		0.00	15.00	5.10
0111383	BS	8.00	WB	2.00		0.00		0.00		0.00	2.00	2.08
0111490	BS	4.00	LA	3.00	RM	2.00	PO	1.00		0.00	14.00	1.61
0111133	WS	4.00	BS	3.00	LA	1.00	RM	1.00	BF	1.00	15.00	0.01
0111535	RM	4.00	LA	3.00	WS	2.00	PO	1.00		0.00	14.00	0.07
010518	WS	8.00	PO	1.00	RM	1.00		0.00		0.00	15.00	2.11
0101379	BS	7.00	LA	2.00	BF	1.00		0.00		0.00	13.00	3.12
0111178	BS	4.00	RM	2.00	WB	2.00	LA	1.00	PO	1.00	12.00	1.99
0101427	BS	8.00	LA	2.00		0.00		0.00		0.00	5.00	1.31
0111467	PO	5.00	RM	3.00	WS	1.00	LA	1.00		0.00	19.00	2.25
0111097	RM	4.00	WS	2.00	PO	2.00	LA	1.00	BS	1.00	14.00	2.55
0111358	RM	4.00	PO	2.00	LA	2.00	WS	1.00	BS	1.00	18.00	2.07
0111808	RM	4.00	PO	2.00	WS	2.00	LA	1.00	BS	1.00	18.00	2.24
0111185	RM	5.00	PO	3.00	WB	1.00	WS	1.00		0.00	18.00	0.36
0111441	PO	4.00	BS	3.00	RM	2.00	LA	1.00		0.00	18.00	3.95
0101459	CC	10.00		0.00		0.00		0.00		0.00	0.00	0.55
0111273	RM	5.00	PO	2.00	BF	2.00	BS	1.00		0.00	17.00	1.17

Appendix D. Forest Inventory Codes

Appendix D. 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 E. Stand Tally Sheets from on the Ground Assessment

STAND TALLY SHEET														
CRUISER		S. Rankin			STAND #		111490			PLANTATION #				
PROPERTY #		38950			AREA		1.5 ha			Date		7 / 10 / 2021		
										D M Y				
SAMPLE TREE INFORMATION														
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT				
1	BF	52	25	15		4								
2	WS/BS	79	31	16		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 (%)		BF3	%	WSBS	%	RM1	%	LA1	%	GB				
Even-aged		X	Uneven-aged							Biomass				
Slope level		%	Aspect											
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed						
		Windfall		Non Forest				Ploughed						
		Clear Cut		X		Unknown								
Stand Maturity Class:		Regeneration		Immature		Mature		Over-mature		X				
Stand Stocking:		Understocked		Fully Stocked		X		Overstocked		Patchy				
Density:		SW	1,000		HW	400								
Advanced Regeneration:		Understocked		X		Fully Stocked		Overstocked		Patchy		X		
Regeneration:		1. Spp. BS		Height 0.2-2.0m		2. Spp. RM		Height 1.0-3.0m						
		3. Spp. BF		Height 0.2-4.0m		4. Spp.		Height						
GROUND OBSERVATIONS														
Ground Vegetation Species Present:		rhododendron, laurel, bunch berry, woody shrubs, ferns, wild raisin												
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		N	Bog		N	Pond		N	Stream		N	Seeps		N
Drainage:		Poor	X	Moderate		Good		Excellent		Erosion Control Required		N	Y / N	
Snag Trees:		Adequate		X		Inadequate								
Coarse Woody Material:		Adequate		X		Inadequate								
Dens		N	Nests (Raptors, songbirds, etc.)		N									
Wildlife Observed		None observed												
Comments														
STAND PRESCRIPTION														
No Treatment				Regeneration Cut				Crop Tree Release				Block Cut		X
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:		Overmature stand of BF that is declining. The RS/BS is older but ready to be harvested as well.												
		Harvest and plant with BS.												

STAND TALLY SHEET														
CRUISER		S. Rankin			STAND #		11523			PLANTATION #		3965151		
PROPERTY #		38950			AREA		1.2 ha			Date		7 / 10 / 2021		
												D M Y		
SAMPLE TREE INFORMATION														
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT				
1	BS		4	4		4								
2	GB		6	7		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 (%)		BS1	%	BF1	%	GB6	%	RM1	%	LA1				
Even-aged level		Uneven-aged								Biomass				
Slope level %		Aspect												
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed						
		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	1,800		HW	10,000								
Advanced Regeneration:		Understocked		X		Fully Stocked		Overstocked		Patchy		X		
Regeneration:		1. Spp. RM		Height		0.2-1.0m		2. Spp.		Height				
		3. Spp. BF1		Height		0.2-1.0m		4. Spp.		Height				
GROUND OBSERVATIONS														
Ground Vegetation Species Present:		bunch berry, wild raisin, ferns, woody shrubs												
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		N	Bog	N	Pond	N	Stream	N	Seeps	N	Beaver Present		N	Y / N
Drainage:		Poor	X	Moderate	Good	Excellent	Erosion Control Required		N	Y / N				
Snag Trees:		Adequate	Inadequate	X										
Coarse Woody Material:		Adequate	Inadequate	X										
Dens		N	Nests (Raptors, songbirds, etc.)	N										
Wildlife Observed		None observed												
Comments														
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:		This plantation is stocked, however, it is severely suppressed from hardwood competition. If can do right away, conduct a maintenance. Otherwise the SW may be too far gone to respond to treatment. Retain some RM for species diversity.												

STAND TALLY SHEET														
CRUISER		S. Rankin			STAND #		111160			PLANTATION #				
PROPERTY #		38950			AREA		1.5 ha		Date		7 / 10 / 2021			
										D M Y				
SAMPLE TREE INFORMATION														
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT				
1	BS	84	31	16		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 (%)		BSWS4	%	BF2	%	RM2	%	PO1	%	GB1				
Even-aged		X	Uneven-aged							Biomass				
Slope level		%	Aspect											
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed						
		Windfall		Non Forest				Ploughed						
		Clear Cut		X		Unknown								
Stand Maturity Class:		Regeneration		Immature		X		Mature		X		Over-mature		
Stand Stocking:		Understocked		Fully Stocked		X		Overstocked				Patchy		
Density:		SW	1,600		HW	1,000								
Advanced Regeneration:		Understocked		X		Fully Stocked		Overstocked				Patchy		
Regeneration:		1. Spp. RM		Height		0.2-3.0m		2. Spp.		Height				
		3. Spp. BF2		Height		0.2-2.0m		4. Spp.		Height				
GROUND OBSERVATIONS														
Ground Vegetation Species Present:		bunch berry, rose, wild raisin, yellow clintonia, laurel, sarsaparilla, fern												
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		N	Bog	N	Pond	N	Stream	N	Seeps	N	Beaver Present			
Drainage:		Poor	X	Moderate		Good		Excellent		Erosion Control Required				
Snag Trees:		Adequate	X	Inadequate										
Coarse Woody Material:		Adequate	X	Inadequate										
Dens		N	Nests (Raptors, songbirds, etc.)		N									
Wildlife Observed		None observed												
Comments														
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:		This is a mixedwood stand. There are pockets of BF and pockets of RS/BS mixed in with RM/PO. The BF is dying out. BS/RS crowns are small. The BS/RS will last a couple of years but the BF won't. There is BF regeneration in BF areas. Harvest the SW retaining as much RM and PO as possible. Plant BS.												

STAND TALLY SHEET															
CRUISER		S. Rankin			STAND #		11405			PLANTATION #					
PROPERTY #		38950			AREA		5.0 ha			Date		7 / 10 / 2021			
										D		M Y			
SAMPLE TREE INFORMATION															
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT					
1	BS	94	33	15-17m		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 (%)		BS8	%	RM1	%	PO1	%	WBGB1							
Even-aged		X	Uneven-aged		Biomass										
Slope level		%	Aspect												
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed							
		Windfall		X		Non Forest		Ploughed							
		Clear Cut		Unknown											
Stand Maturity Class:		Regeneration			Immature			Mature			Over-mature X				
Stand Stocking:		Understocked X			Fully Stocked X			Overstocked			Patchy				
Density:		SW	1,000		HW	200									
Advanced Regeneration:		Understocked X			Fully Stocked			Overstocked			Patchy X				
Regeneration:		1. Spp. BF			Height 0.2-4.0m			2. Spp.			Height				
		3. Spp. BS			Height 0.2-4.0m			4. Spp.			Height				
GROUND OBSERVATIONS															
Ground Vegetation Species Present:															
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		N	Bog		N	Pond		N	Stream		N	Seeps		N	
Beaver Present		N	Y / N												
Drainage:		Poor X	Moderate		Good		Excellent		Erosion Control Required N Y / N						
Snag Trees:		Adequate X	Inadequate												
Coarse Woody Material:		Adequate X	Inadequate												
Dens		N	Nests (Raptors, songbirds, etc.)		N										
Wildlife Observed		heard squirrels													
Comments															
STAND PRESCRIPTION															
No Treatment					Regeneration Cut						Crop Tree Release			Block Cut X	
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:		The trees on this site are very overmature. Broken tops. Harvest immediately. BF regeneration is variable throughout the site. Retain BS/BF regen where possible. Retain RM and some large PO.													
		Plant BS.													

STAND TALLY SHEET															
CRUISER		S. Rankin			STAND #		11808			PLANTATION #					
PROPERTY #		38950			AREA		2.3 ha		Date		7 / 10 / 2021				
									D		M		Y		
SAMPLE TREE INFORMATION															
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT					
1	RM		29	17		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 (%)		RM6	%	POWB1	%	BF1	%	WSBS2	%						
Even-aged		X	Uneven-aged							Biomass					
Slope level		%	Aspect												
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed							
		Windfall		X		Non Forest		Ploughed							
		Clear Cut		X		Unknown									
Stand Maturity Class:		Regeneration		Immature		X		Mature		X		Over-mature			
Stand Stocking:		Understocked		Fully Stocked		X		Overstocked				Patchy			
Density:		SW	100		HW	1,800									
Advanced Regeneration:		Understocked		X		Fully Stocked		Overstocked				Patchy			
Regeneration:		1. Spp. BF		Height		0.1-2.0m		2. Spp.		Height					
		3. Spp.		Height				4. Spp.		Height					
GROUND OBSERVATIONS															
Ground Vegetation Species Present:					bunch berry, ferns, blueberry, yellow clintonia, wild raisin, sarsaparilla, ground hemlock, woody shrubs, star flower, ground pine										
Ground Hemlock					X	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		N	Bog		N	Pond		N	Stream		N	Seeps		N	
Drainage:		Poor	X	Moderate		Good		Excellent		Erosion Control Required					N
Snag Trees:		Adequate		X		Inadequate									
Coarse Woody Material:		Adequate		X		Inadequate									
Dens		N		Nests (Raptors, songbirds, etc.)		N									
Wildlife Observed		None observed													
Comments															
STAND PRESCRIPTION															
No Treatment				Regeneration Cut				Crop Tree Release				Block Cut			X
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:		Approximately 30-40% of the stand is SW and can be harvested. A larger portion of the stand is HW with no treatment recommended. Mixedwood areas with good SW can be harvested while retaining hardwood. Plant BS.													

STAND TALLY SHEET															
CRUISER		S. Rankin			STAND #		11441, 11233			PLANTATION #					
PROPERTY #		38950			AREA		4.4 ha			Date		7 / 10 / 2021			
										D		M Y			
SAMPLE TREE INFORMATION															
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT					
1	WS/BS	95	35	18		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 (%)		RM3	%	PO1	%	BS5	%	WB1							
Even-aged		X	Uneven-aged		Biomass										
Slope level		%	Aspect												
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed							
		Windfall		X		Non Forest		Ploughed							
		Clear Cut				Unknown									
Stand Maturity Class:		Regeneration		Immature		Mature		X		Over-mature					X
Stand Stocking:		Understocked		Fully Stocked		X		Overstocked		Patchy					
Density:		SW	800		HW	1,400									
Advanced Regeneration:		Understocked		X		Fully Stocked		Overstocked		Patchy					X
Regeneration:		1. Spp. RM		Height		0.2-2.0m		2. Spp.		Height					
		3. Spp. BF		Height		0.2-2.0m		4. Spp.		Height					
GROUND OBSERVATIONS															
Ground Vegetation Species Present:					bunch berry, yellow clintonia, blueberry, ground pine, ferns, laurel, wild raisin										
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		N	Bog	N	Pond	N	Stream	N	Seeps	N	Beaver Present				N Y / N
Drainage:		Poor	X	Moderate	Good	Excellent	Erosion Control Required								N Y / N
Snag Trees:		Adequate	X	Inadequate											
Coarse Woody Material:		Adequate	X	Inadequate											
Dens		N	Nests (Raptors, songbirds, etc.)		N										
Wildlife Observed		None observed													
Comments															
STAND PRESCRIPTION															
No Treatment		Regeneration Cut		Crop Tree Release		Block Cut		X							
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:		This is a softwood dominated stand. The WS are nice logs. Harvest the SW and retain the HW.													
		Plant WS.													

STAND TALLY SHEET														
CRUISER		S. Rankin			STAND #		11458		PLANTATION #					
PROPERTY #		38950			AREA		1.6 ha		Date		7 / 10 / 2021			
										D M Y				
SAMPLE TREE INFORMATION														
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT				
1	BF	42	28	15		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 (%)		BF7	%	BS2	%	RM1	%	POWB						
Even-aged		X	Uneven-aged		Biomass									
Slope		2 %		Aspect		E								
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed						
		Windfall		X		Non Forest		Ploughed						
		Clear Cut				Unknown								
Stand Maturity Class:		Regeneration		Immature		X		Mature		X		Over-mature		
Stand Stocking:		Understocked		Fully Stocked		X		Overstocked				Patchy		
Density:		SW	3,600		HW	400								
Advanced Regeneration:		Understocked		X		Fully Stocked		Overstocked				Patchy		
Regeneration:		1. Spp. BF		Height		0.2-4.0m		2. Spp.		Height				
		3. Spp. RM		Height		0.2-4.0m		4. Spp.		Height				
GROUND OBSERVATIONS														
Ground Vegetation Species Present:					bunchberry, bracken fern, star flower, yellow clintonia, wild raisin, twinflower, woody shrubs									
Ground Hemlock					X	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		Y	Bog		Y	Pond		N	Stream		Y	Seeps		Y
Drainage:		Poor	X	Moderate		X	Good			Excellent		Erosion Control Required		N
Snag Trees:		Adequate		X	Inadequate									
Coarse Woody Material:		Adequate		X	Inadequate									
Dens		N		Nests (Raptors, songbirds, etc.)		N								
Wildlife Observed		Heard squirrels												
Comments		Unmapped drainage and short creek between this stand and stand 11467. Retain 15 buffer on creek.												
STAND PRESCRIPTION														
No Treatment				Regeneration Cut				Crop Tree Release				Block Cut		X
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:		This is a higher drier site. The BF is 2nd growth with some older BS. BF is small in diameter but is merchantable. There is no rush to harvest this stand; however, it should be harvested with adjacent stands as the wood volume is low and does not warrant a second entry at a later date. Plant WS and RO.												

STAND TALLY SHEET															
CRUISER		S. Rankin			STAND #		11150		PLANTATION #						
PROPERTY #		38950			AREA		2.2 ha		Date		7 / 10 / 2021				
										D M Y					
SAMPLE TREE INFORMATION															
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT					
1	PO		35	18		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 (%)		PO3	%	RM1	%	BFWS5	%	WB1	%						
Even-aged		Uneven-aged		X						Biomass					
Slope level		%	Aspect												
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed							
		Windfall		Non Forest				Ploughed							
		Clear Cut		X	Unknown										
Stand Maturity Class:		Regeneration		X	Immature		X	Mature		X	Over-mature		X		
Stand Stocking:		Understocked		X	Fully Stocked			Overstocked			Patchy				
Density:		SW	800	HW	600										
Advanced Regeneration:		Understocked			Fully Stocked		X	Overstocked			Patchy		X		
Regeneration:		1. Spp. RM		Height		0.2-4.0m		2. Spp.		Height					
		3. Spp. BF		Height		0.2-4.0m		4. Spp.		Height					
GROUND OBSERVATIONS															
Ground Vegetation Species Present:					Heavy vegetation. Bracken fern, bunch berry, laurel, woody shrubs, blueberry red osier dogwood										
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		Y	Bog	Y	Pond	N	Stream	Y	Seeps	N	Beaver Present				N Y / N
Drainage:		Poor	X	Moderate		Good		Excellent		Erosion Control Required					N Y / N
Snag Trees:		Adequate	X	Inadequate											
Coarse Woody Material:		Adequate	X	Inadequate											
Dens		N	Nests (Raptors, songbirds, etc.)		N										
Wildlife Observed		None observed													
Comments		Apply 15m buffer if work ever completed on this stand.													
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:		This is a very open stand with almost no merchantable wood. BF regeneration is at different heights as the stand opened up. No work is recommended for this stand at this time. Let the stand develop naturally. It provides a good buffer and wildlife habitat for the stream.													

STAND TALLY SHEET																
CRUISER		S. Rankin			STAND #		11467			PLANTATION #						
PROPERTY #		38950			AREA		2.3 ha			Date		7 / 10 / 2021				
										D		M Y				
SAMPLE TREE INFORMATION																
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT						
1	BF	38	22	12		4										
2	RM		32	17		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 (%)		RM6	%	PO1	%	WB1	%	BF1	%	BS1						
Even-aged		X	Uneven-aged							Biomass						
Slope		3-Feb	%	Aspect		N										
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed								
		Windfall		X		Non Forest		Ploughed								
		Clear Cut				Unknown										
Stand Maturity Class:		Regeneration		Immature		Mature		X		Over-mature						
Stand Stocking:		Understocked		Fully Stocked		X		Overstocked		Patchy						
Density:		SW	800		HW	1,800										
Advanced Regeneration:		Understocked		X		Fully Stocked		Overstocked		Patchy						
Regeneration:		1. Spp. BF		Height		0.2-4.0m		2. Spp. BS		Height		0.2-2.0m				
		3. Spp. RM		Height		0.2-4.0m		4. Spp.		Height						
GROUND OBSERVATIONS																
Ground Vegetation Species Present:					blueberry, ground pine, sarsaparilla, bracken fern, star flower, yellow clintonia, hazelnut, rose, ferns, laurel, red osier dogwood, clubmoss											
Ground Hemlock					X	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		Y		Bog	Y		Pond	N		Stream	Y		Seeps	N		
Drainage:		Poor	X		Moderate			Good			Excellent			Erosion Control Required	N Y / N	
Snag Trees:		Adequate		X		Inadequate										
Coarse Woody Material:		Adequate		X		Inadequate										
Dens		N		Nests (Raptors, songbirds, etc.)		N										
Wildlife Observed		None observed														
Comments		Apply a 15m buffer along the watercourse/wetland.														
STAND PRESCRIPTION																
No Treatment				Regeneration Cut				Crop Tree Release				Block Cut		X		
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:		This site is mostly a HW stand. There are pockets of 2nd growth BF. The BF is small but merchantable.														
		Leave the HW sections (with high RM content) as is and harvest areas with a higher BF/BS content.														
		The WB and PO areas can be harvested as well if there is a market.														

STAND TALLY SHEET														
CRUISER		S. Rankin			STAND # 111097, 11178, 11358			PLANTATION #						
PROPERTY #		38950			AREA 4.8 ha			Date	19 /	10 /	2021			
									D	M	Y			
SAMPLE TREE INFORMATION														
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT				
1	BF	36	22	15		4								
2	BS/WS	83	36	17		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 (%)	BF2	%	BSWS2	%	LA1	%	RM2	%	PO2, WB1					
Even-aged			Uneven-aged	X								Biomass		
Slope	2 %	Aspect	S											
Stand Origin:	Old Field		Partial Cut		Burn		Unploughed							
	Windfall		Non Forest				Ploughed							
	Clear Cut	X	Unknown											
Stand Maturity Class:	Regeneration		Immature	X	Mature	X	Over-mature	X						
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy							
Density:	SW	1,600	HW	1,600										
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy	X						
Regeneration:	1. Spp. BFBS		Height	0.2-4.0m	2. Spp.		Height							
	3. Spp. RMPO		Height	0.2-4.0m	4. Spp.		Height							
GROUND OBSERVATIONS														
Ground Vegetation Species Present:				blueberry, ground pine, goldthread, wild raisin, laurel, yellow clintonia, bracken fern, clubmoss										
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	Y	Bog	N	Pond	N	Stream	Y	Seeps	Y	Beaver Present	N	Y / N		
Drainage:	Poor	X	Moderate		Good		Excellent		Erosion Control Required	N	Y / N			
Snag Trees:	Adequate	X	Inadequate											
Coarse Woody Material:	Adequate	X	Inadequate											
Dens	N	Nests (Raptors, songbirds, etc.)	N											
Wildlife Observed	None observed													
Comments	Apply NAPA buffer along west boundary. Apply a 15m riparian buffer along the watercourses.													
STAND PRESCRIPTION														
No Treatment			Regeneration Cut		Crop Tree Release		Block Cut	X						
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:	The stands are variable in species mix age, and stand structure. Harvest all mature SW, PO and WB. Retain RM and some large PO. Some sections have a well developed understory of natural regeneration. Protect it to the extent possible. Interplant with a variety of species for diversity. There is younger HW coppice growth in west part of stand 11178 (no treatment).													

STAND TALLY SHEET															
CRUISER		S. Rankin			STAND #		101379			PLANTATION #					
PROPERTY #		38950			AREA		3.2 ha			Date		19 / 10 / 2021			
										D		M Y			
SAMPLE TREE INFORMATION															
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT					
1	BS	92	31	16		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 (%)		BS9	%	LA1	%			RMWB							
Even-aged		X	Uneven-aged								Biomass				
Slope level		%	Aspect												
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed							
		Windfall		Non Forest				Ploughed							
		Clear Cut		X		Unknown									
Stand Maturity Class:		Regeneration		Immature		Mature		Over-mature		X					
Stand Stocking:		Understocked		Fully Stocked		X		Overstocked		Patchy					
Density:		SW	2,000		HW	50									
Advanced Regeneration:		Understocked		Fully Stocked		X		Overstocked		Patchy					
Regeneration:		1. Spp. BSBF		Height		0.2-4.0m		2. Spp.		Height					
		3. Spp. RM		Height		0.5-4.0m		4. Spp.		Height					
GROUND OBSERVATIONS															
Ground Vegetation Species Present:					bracken fern, wild raisin, laurel, blueberry, bunch berry										
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		N	Bog		N	Pond		N	Stream		N	Seeps		N	
Beaver Present		N	Y / N												
Drainage:		Poor	X	Moderate		Good		Excellent		Erosion Control Required		N	Y / N		
Snag Trees:		Adequate		X	Inadequate										
Coarse Woody Material:		Adequate		X	Inadequate										
Dens		N	Nests (Raptors, songbirds, etc.)		N										
Wildlife Observed		None observed													
Comments		Establish NAPA buffer													
STAND PRESCRIPTION															
No Treatment				Regeneration Cut				Crop Tree Release				Block Cut		X	
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:		This is an overmature BS stand with deeper duff. The wood is old, some trees have broken tops, and the stand is in decline. It is to be harvested as soon as possible.													

STAND TALLY SHEET															
CRUISER		S. Rankin			STAND #		11273			PLANTATION #					
PROPERTY #		38950			AREA		1.1 ha		Date		19 / 10 / 2021				
										D M Y					
SAMPLE TREE INFORMATION															
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT					
1	RM		24	14		4									
2						5									
3						6									
STAND INFORMATION															
Stand Basal Area		SW		M ² /Ha		SWSL		M ² /Ha		HW		M ² /Ha		HWSL	
Species and (%)		RM5 %		PO3 %		BF1 %		BS1 %							
Even-aged		X		Uneven-aged								Biomass			
Slope		1 %		Aspect		W									
Stand Origin:		Old Field		Partial Cut		Burn				Unploughed					
		Windfall		Non Forest						Ploughed					
		Clear Cut		X		Unknown									
Stand Maturity Class:		Regeneration		Immature		X		Mature		X		Over-mature			
Stand Stocking:		Understocked		Fully Stocked		X		Overstocked				Patchy			
Density:		SW 50		HW 3,000											
Advanced Regeneration:		Understocked		X		Fully Stocked		Overstocked				Patchy			
Regeneration:		1. Spp. RM		Height 0.5-2.0m		2. Spp.		Height							
		3. Spp. BF		Height 0.2-3.0m		4. Spp.		Height							
GROUND OBSERVATIONS															
Ground Vegetation Species Present:		wild raisin, bracken fern, ground pine, clubmoss, bunch berry													
Ground Hemlock		X		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		N		Bog		N		Pond		N		Stream		N	
Seeps		N										Beaver Present		N Y / N	
Drainage:		Poor		X		Moderate		Good				Excellent			
Erosion Control Required		N		Y / N											
Snag Trees:		Adequate		X		Inadequate									
Coarse Woody Material:		Adequate		X		Inadequate									
Dens		N		Nests (Raptors, songbirds, etc.)		N									
Wildlife Observed		None observed													
Comments		Most of this stand is encompassed by NAPA and cannot be treated.													
STAND PRESCRIPTION															
No Treatment				Regeneration Cut				Crop Tree Release				Block Cut		X	
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:		This is mostly a coppice growth HW stand, however, there is a small pocket of SW in the north part of the stand that could be harvested. The HW component does not require any treatment. The SW can be harvested in conjunction with other harvest stands.													

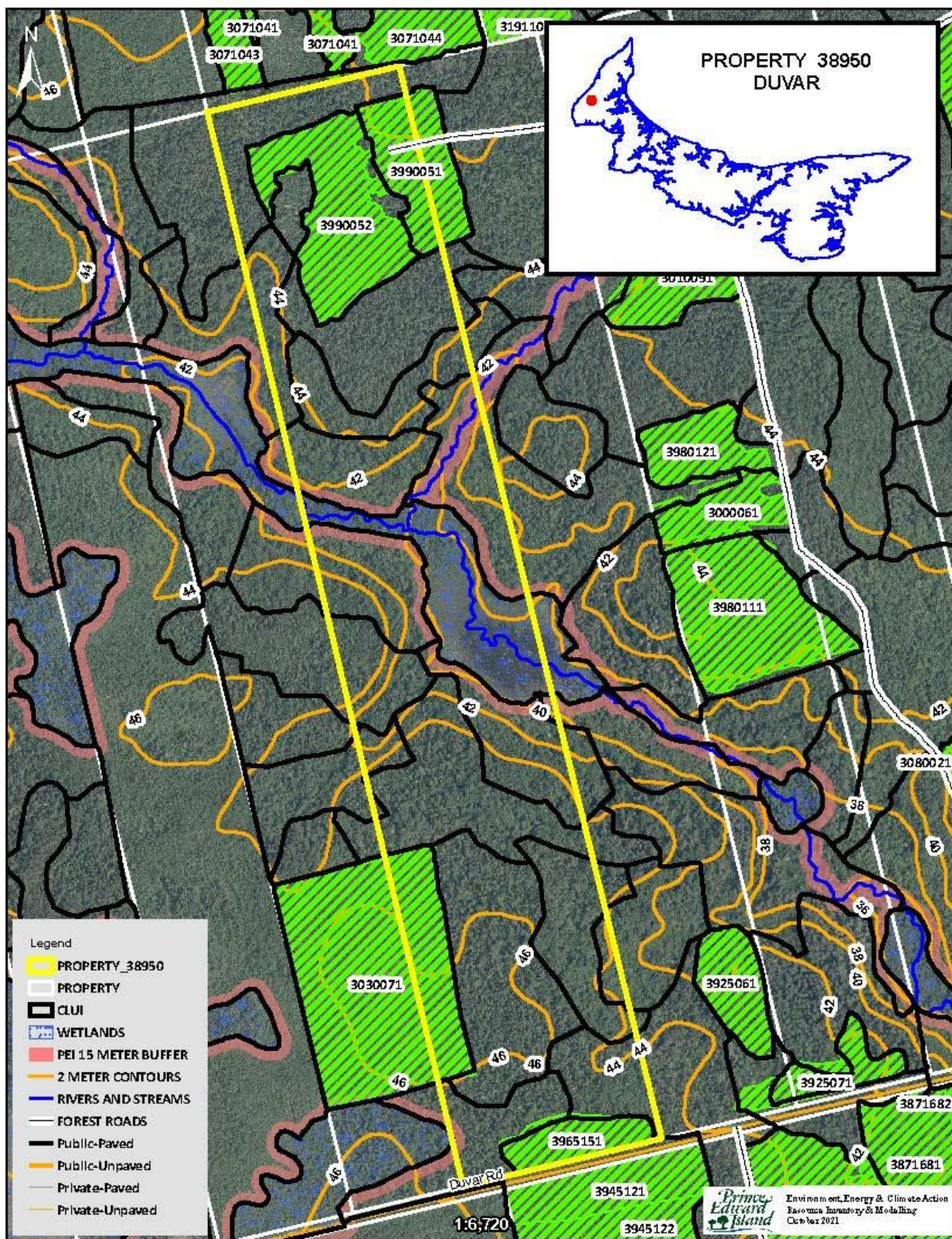
STAND TALLY SHEET															
CRUISER		S. Rankin			STAND #		101459			PLANTATION #					
PROPERTY #		38950			AREA		0.5 ha			Date		19 / 10 / 2021			
										D		M Y			
SAMPLE TREE INFORMATION															
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT					
1	LA	18	4	3		4									
2						5									
3						6									
STAND INFORMATION															
Stand Basal Area		SW		M ² /Ha		SWSL		M ² /Ha		HW		M ² /Ha		HWSL	
Species and (%)		LA3		%		BS2		%		BF2		%		GB2	
Even-aged		X		Uneven-aged										Biomass	
Slope		level		%		Aspect									
Stand Origin:		Old Field				Partial Cut				Burn				Unploughed	
		Windfall				Non Forest								Ploughed	
		Clear Cut		X		Unknown									
Stand Maturity Class:		Regeneration				Immature		X		Mature				Over-mature	
Stand Stocking:		Understocked				Fully Stocked				Overstocked		X		Patchy	
Density:		SW		4,000		HW		800							
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:		blueberry, laurel, wild raisin, bunch berry													
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		N		Bog		N		Pond		N		Stream		N	
Seeps		N										Beaver Present		N Y / N	
Drainage:		Poor		X		Moderate				Good				Excellent	
Erosion Control Required		N												Y / N	
Snag Trees:		Adequate		X		Inadequate									
Coarse Woody Material:		Adequate		X		Inadequate									
Dens		N				Nests (Raptors, songbirds, etc.)		N							
Wildlife Observed		None observed													
Comments															
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		X				Reforestation				Riparian Zone Mgmt					
Pln. Maint.		Y / N				Stems/Ha									
Comments:		This is a naturally regenerated harvest area. It is stocked with SW. A PCT would provide the growing space required for the stand to preform to potential. However, there is no access to the site as the woods road is severely damaged. Assess at a later date should the road be re-constructed and there is access to the site.													

STAND TALLY SHEET															
CRUISER		S. Rankin			STAND #		10518			PLANTATION #					
PROPERTY #		38950			AREA		2.0 ha			Date		19 / 10 / 2021			
										D		M Y			
SAMPLE TREE INFORMATION															
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT					
1	BS	65	27	16		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 (%)		WSBF2	%	BS1	%	PO3	%	RM3	%	LA1					
Even-aged		Uneven-aged		X							Biomass				
Slope	level	%	Aspect												
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed							
		Windfall		Non Forest		Ploughed									
		Clear Cut		X		Unknown									
Stand Maturity Class:		Regeneration		Immature		Mature		X		Over-mature					
Stand Stocking:		Understocked		X		Fully Stocked				Overstocked		Patchy			
Density:		SW		HW											
Advanced Regeneration:		Understocked		Fully Stocked		X		Overstocked		Patchy		X			
Regeneration:		1. Spp. BFBSLA		Height		0.5-3.0m		2. Spp.		Height					
		3. Spp. RMPO		Height		0.5-4.0m		4. Spp.		Height					
GROUND OBSERVATIONS															
Ground Vegetation Species Present:					blueberry, laurel, bunch berry, wild raisin										
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		N		Bog		N		Pond		N		Stream		N	
Seeps		N				Beaver Present		N		Y / N					
Drainage:		Poor		X		Moderate				Good				Excellent	
Erosion Control Required		N		Y / N											
Snag Trees:		Adequate		X		Inadequate									
Coarse Woody Material:		Adequate		X		Inadequate									
Dens		N		Nests (Raptors, songbirds, etc.)		N									
Wildlife Observed		None observed													
Comments		Apply NAPA Buffer along west boundary													
STAND PRESCRIPTION															
No Treatment				Regeneration Cut				Crop Tree Release				Block Cut		X	
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:		There is a low SW wood volume in this stand. The stand is decadent in areas with good advanced regeneration. Retain a 15m wildlife corridor which includes that portion on private land. Harvest the rest. Plant BS.													

STAND TALLY SHEET															
CRUISER		S. Rankin			STAND #		101427			PLANTATION #		3990051			
PROPERTY #		38950			AREA		2.2 ha			Date		19 / 10 / 2021			
												D M Y			
SAMPLE TREE INFORMATION															
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT					
1	BS	22	4	4		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 (%)		BS2	%	BF2	%	LA2	%	GB2	%	RM1, PO1					
Even-aged		X	Uneven-aged							Biomass					
Slope		level	%	Aspect											
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed							
		Windfall		Non Forest		Ploughed									
		Clear Cut		X		Unknown									
Stand Maturity Class:		Regeneration		Immature		X		Mature		Over-mature					
Stand Stocking:		Understocked		Fully Stocked				Overstocked		X		Patchy			
Density:		SW	3,000		HW	1,000									
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:															
Ground Hemlock Y / N N															
Invasive Species Present Y / N If yes then what species:															
Site Indicators Y / N If yes then what species:															
ENVIRONMENTAL OBSERVATIONS															
Water Course		N	Bog		N	Pond		N	Stream		N	Seeps		N	
Beaver Present		N	Y / N												
Drainage:		Poor	X	Moderate		Good		Excellent		Erosion Control Required					N Y / N
Snag Trees:		Adequate		Inadequate		X									
Coarse Woody Material:		Adequate		Inadequate		X									
Dens		N	Nests (Raptors, songbirds, etc.)		N										
Wildlife Observed		None observed													
Comments															
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		X		Reforestation				Riparian Zone Mgmt							
Pln. Maint.		X	Y / N	Stems/Ha											
Comments:		This is a BS plantation with ingress from LA and BF. It would benefit from a combination													
		maintenance/pre-commercial thinning. However, the access road is severely damaged. Re-assess the													
		stand for treatment if the road is ever reconstructed for use.													

STAND TALLY SHEET															
CRUISER		S. Rankin			STAND #		101428			PLANTATION #		3990052			
PROPERTY #		38950			AREA		3.7 ha			Date		19 / 10 / 2021			
												D M Y			
SAMPLE TREE INFORMATION															
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT					
1	WP	22	12	7		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 (%)		WP1	%	GB2	%	PO2	%	RM1	%	BS2, BF1, LA1					
Even-aged		X	Uneven-aged								Biomass				
Slope		level	%	Aspect											
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed							
		Windfall		Non Forest		Ploughed									
		Clear Cut		X		Unknown									
Stand Maturity Class:		Regeneration		Immature		X		Mature		Over-mature					
Stand Stocking:		Understocked		Fully Stocked				Overstocked		X		Patchy			
Density:		SW	2,200		HW	3000+									
Advanced Regeneration:		Understocked		X		Fully Stocked		Overstocked		Patchy					
Regeneration:		1. Spp. BF		Height		0.3-2.0m		2. Spp.		Height					
		3. Spp. BS		Height		0.3-2.0m		4. Spp.		Height					
GROUND OBSERVATIONS															
Ground Vegetation Species Present:		wild raisin, blueberry, bunch berry													
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		N		Bog	N		Pond	N		Stream	N		Seeps	N	
Beaver Present		N		Y / N											
Drainage:		Poor		X		Moderate		Good		Excellent		Erosion Control Required			N Y / N
Snag Trees:		Adequate		Inadequate		X									
Coarse Woody Material:		Adequate		Inadequate		X									
Dens		N		Nests (Raptors, songbirds, etc.)		N									
Wildlife Observed		None observed													
Comments															
STAND PRESCRIPTION															
No Treatment				Regeneration Cut				Crop Tree Release				Block Cut			9 yrs
Shelterwood Cut				Selection Cut				Patch Cut				Strip Cut			
Commercial Thinning				Afforestation				Site Preparation		X					
Pre-commercial Thinning		X		Reforestation		X		Riparian Zone Mgmt							
Pln. Maint.		X Y / N		Stems/Ha											
Comments:		This is a WP plantation that has a lot of natural ingress from BS, LA and BF. Large areas have been suppressed by GB, PO & RM. A combination plantation maintenance and pre-commercial thinning is required. Areas void of SW can be block harvested & planted later. Unfortunately, the site has no access as the woods road is severely damaged. Assess for treatment if road is re-constructed.													

Appendix F. Plantation Map with Contour Lines



Appendix G. Work Completed

Activity Number	Treatment Code	Amount Completed	Treatment Date	Treatment Description
0	154	0.65	8/21/1993	Site Reclamation class 4-with product
0	158	0.65	8/21/1993	Site Reclamation extraction 41-80m3/ha
0	212	0.65	8/21/1993	Stumpage
3965151	29	1.12	12/20/1995	Raking Crawler Tractor-Root Rake: per Ha
3990051	29	6.53	12/11/1998	Raking Crawler Tractor-Root Rake: per Ha
3990051	38C	6.53	3/29/1999	Slash Pile Burn: Greater Than 6 Ha
3965151	54W	2655	6/27/1996	BALSAM FIR - WESTERN
3990051	56W	10017	6/24/1999	WHITE PINE - WESTERN
3965151	82B	1.12	10/2/1997	Herbicide: Broadcast: 1st Treatment