P.E.I.
Public Forests



**Woodlot Management Plan** 

**Property Number: 39040** 

**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. 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 # 39040 is located on the Duvar Road, in the community of Duvar, P.E.I., (Appendix A).

The total area of this property is 32.4 hectares (80 acres) and the midpoint of the property is Latitude N

46.74889 decimal degrees, Longitude W -64.25774 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 has been 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**

There are no streams or watercourses on this property. This observation can be viewed in Appendix A.

#### **Rare Plants**

Rattlesnake Fern (Botrypus virginianus) was identified in the red pine plantation (PN 3945151). It has an S3 ranking at the provincial level and Should any work occur in this plantation the rare plant is to be located and protected.

# **Property Access**

A large swale runs through the southern portion of the property. Access south of the swale is via the Duvar Road. Access to lands north of the swale is via a Class I woods road network that services several public land properties. Ongoing road maintenance for that portion of the road that crosses the property 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, re-ditching, repairing any wet areas that restrict access, and any other maintenance required to keep this road usable. The existing road on the property can be seen on Appendix A

#### **Property Boundaries**

This property is bounded on the south by the Duvar Road and east and north by private land. The west boundary borders public land (PID 39024). The east boundary has a boundary line established. The boundary line is partially cut and the rest is well blazed and painted (red paint) and easy to follow. It would be advantageous to open the complete boundary for future ease of property identification.

#### **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 crosses the Duvar Road near this property that would be a suitable site to setup a portable fire pump system during water flows.

#### **Planting and Silviculture**

There are three (3) 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.

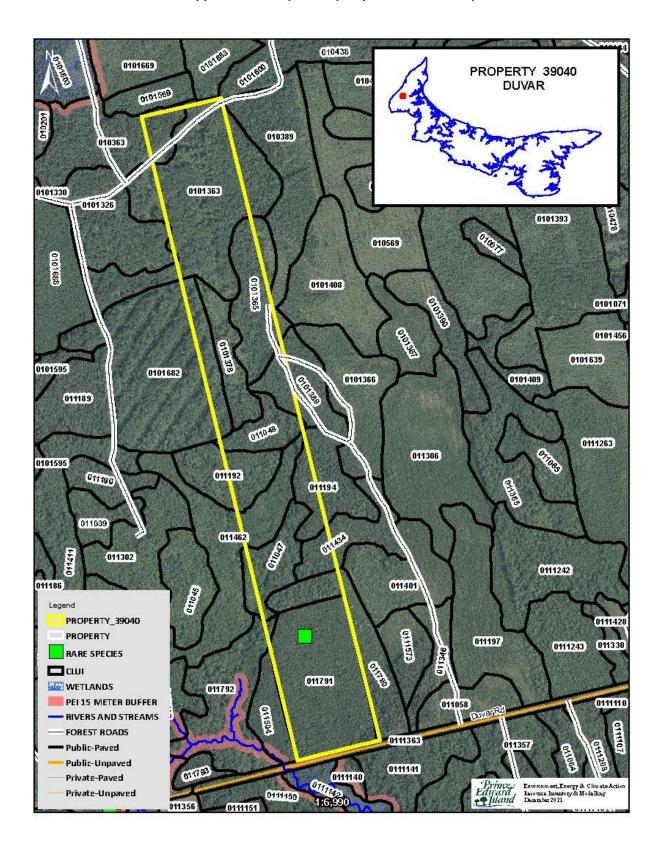
**Table 1. Proposed Treatment Summary.** 

Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	2018 Eco- Manual Reference	Comments	Goals
Road	Road Maintenance, Fill, Road Re- construction	2022	220 m	Pg 9, 11, 12	Brush cutting, fill, grading, ditching	Improve road access
Rare Plant PN 394515	Rare Plant In RP Plantation	-	-	-	Locate and protect rare plant. Consult rare plant specialist within the FFW Division regarding protection measures should any work be completed on the stand in the future.	Protect Rare Plant
11434 11194 11192 11048 101378 101365 10363	Block Harvest	2023	8.6	Pg 30	These are SW dominated stands that are mature to overmature requiring harvest. Some of the stands are separated by HW dominated stands creating a mosaic harvest pattern. ECO-Plan biodiversity and wildlife forest/tree retention requirements will be followed. As well, any areas void of SW within the stand will be retained. RM and WP will be retained.	Salvage mature and overmature softwood
11790 101389 101363	Block Harvest (modified)	2023	2.4	Pg 30	These stands are HW or mixwood dominant. Chase the SW for harvest and keep the remainder of the stand as is. Harvest will add species and structural diversity to these stands which is valued for wildlife.	Salvage mature and overmature softwood
PN 3070021	Manual Plantation Maintenance	2023	0.8	Pg 17	This PN is a result of chasing SW throughout a HW stand. Harvest areas were planted	Improve growth of crop trees

				1	1	I
					to WP which are becoming	
					suppressed from PO, GB and	
					RM competition. Retain	
					some RM during treatment.	
					Road access is required to	
					treat the stand.	
PN 3130031	Manual Plantation Maintenance	2023	2.0	Pg 17	These are strip cuts that were reforested. The crop trees are doing well but a maintenance is required to keep the trees growing to their potential. Road access is required to treat the stand.	Improve growth of crop trees
11434 11194 11192 11048 101378 101365 10363	Manual Site Preparation and Planting	2024	8.6	Pg 14, 16	Plant with species ecologically suited to the site. Natural SW and RM regeneration are expected to supplement stocking and add diversity to the site.	Reforest the site.
11790 101389 101363	Manual Site Preparation and Planting	2024	2.4	Pg 17, 16	Prepare plantable spots and plant species ecologically suited to the site. Natural SW and RM regeneration are expected to supplement stocking and add diversity to the site.	Reforest the harvest site
101682	Strip Harvest	2024	0.9	Pg 28	Harvest retention strips. Previous harvested strips are regenerated.	Salvage mature and overmature wood
101682	Manual Site Preparation and Planting	2025	0.9	Pg 17, 16	Prepare plantable spots and plant species ecologically suited to the site. Natural SW and RM regeneration are expected to supplement stocking and add diversity to the site.	Reforest the harvest site
11434 11194 11192 11048 101378 101365 10363	Manual Plantation Maintenance	2028	8.6	Pg 17	Competition to crop trees is expected from PO, GB and RM. Maintain when required to prevent crop trees from becoming suppressed. Follow ECO-Plan biodiversity requirements in selecting species to be cut.	Improve growth of crop trees
11790 101389 101363	Manual Plantation Maintenance	2029	2.4	Pg 17	Reduce HW competition to keep the SW crop trees from becoming suppressed.	Improve growth of crop trees
101682	Manual Plantation Maintenance	2029	0.9	Pg 17	Eliminate undesirable competing vegetation	Improve growth of crop trees

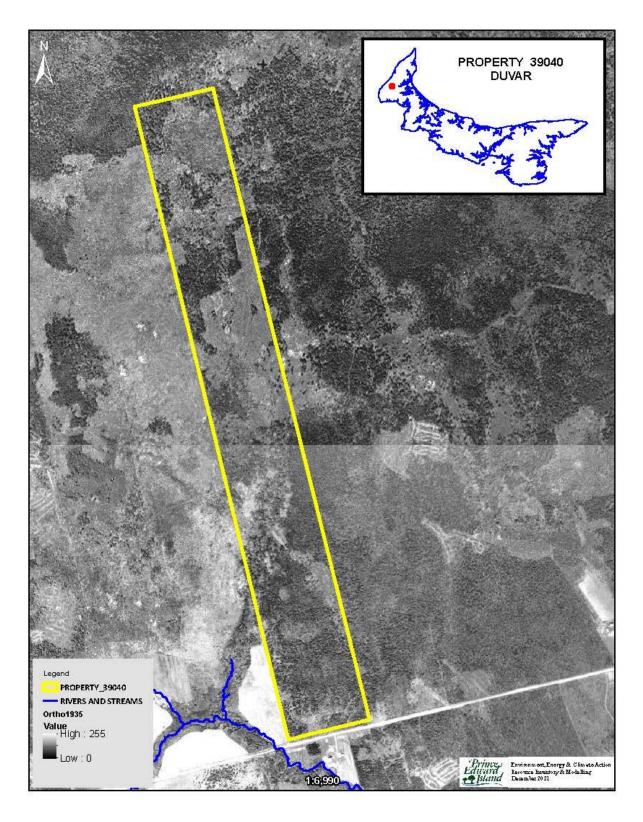
**Appendices** 

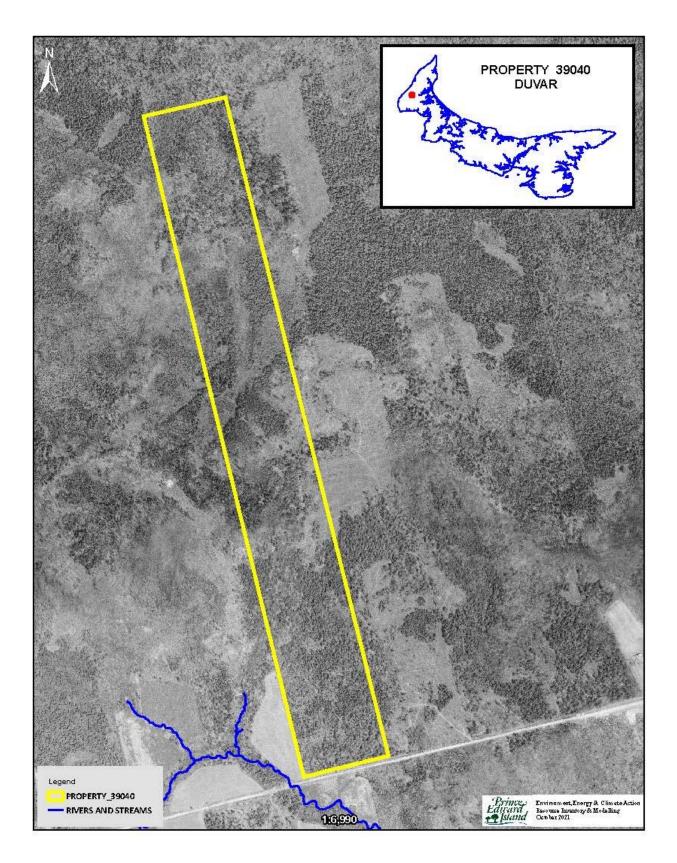
Appendix A. Map of Property with Locator Map



Appendix B. 1935 and 1968 Aerial Photography

# 1935 Aerial Photography





Appendix C. 2010 Corporate Land Use Inventory

FIELDID	COV1	PER1	COV2	PER2	COV3	PER3	COV4	PER4	COV	PER5	HT	HA
0101682	WP	5.00	WS	3.00	RM	1.00	PO	1.00		0.00	19.00	1.55
011194	BS	6.00	RM	2.00	PO	1.00	BF	1.00		0.00	14.00	1.07
011790	RM	3.00	BF	3.00	BS	2.00	PO	2.00		0.00	15.00	1.13
011791	RP	8.00	WP	1.00	WB	1.00		0.00		0.00	7.00	7.16
011504	WS	6.00	WB	4.00		0.00		0.00		0.00	6.00	0.00
0101378	RM	3.00	LA	3.00	BS	2.00	BF	2.00		0.00	18.00	2.08
010389	WS	4.00	RM	3.00	LA	1.00	WB	1.00	BF	1.00	15.00	0.00
010363	WS	7.00	BS	2.00	LA	1.00		0.00		0.00	12.00	0.89
0101365	BS	5.00	LA	2.00	RM	2.00	BF	1.00		0.00	16.00	2.98
011192	RM	5.00	WS	2.00	PO	1.00	BF	1.00	BS	1.00	16.00	1.38
011434	RM	4.00	WB	3.00	BS	2.00	BF	1.00		0.00	12.00	0.81
011462	RM	6.00	PO	2.00	SM	1.00	WS	1.00		0.00	20.00	1.78
011047	RM	6.00	PO	2.00	SM	1.00	WS	1.00		0.00	19.00	1.93
011792	RM	5.00	WS	2.00	BF	2.00	PO	1.00		0.00	21.00	0.11
0101600	WB	5.00	PO	2.00	RM	2.00	WS	1.00		0.00	9.00	0.00
0101326	PO	6.00	RM	2.00	WS	1.00	WB	1.00		0.00	20.00	0.02
0101363	PO	5.00	RM	2.00	BS	2.00	WB	1.00		0.00	19.00	6.99
0101389	RM	4.00	BF	2.00	LA	2.00	WB	2.00		0.00	14.00	0.91
011048	RM	6.00	WS	2.00	BF	1.00	WB	1.00		0.00	15.00	1.53

## **Appendix D. Forest Inventory Codes**

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# EXPLANATION OF FOREST CODES; **SPECIES**

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

PERC	ENT	CRO	WN CLOSURE				
0	1 - 9%	$\mathbf{A}$	91 % - 100%				
1	10 - 19%	В	81 % - 90 %				
2	20 - 29 %	$\mathbf{C}$	71 % - 80 %				
3	30 - 39 %	D	61 % - 70 %		ORIGIN ANI	D HISTO	<u>RY</u>
4	40 - 49 %	${f E}$	51 % - 60 %	BR	Burn	DI	Disease-Insect
5	50 – 59 %	$\mathbf{F}$	41 % - 50 %	$\mathbf{WF}$	Wind Fall	OF	Old Field
6	60 - 69 %	$\mathbf{G}$	31 % - 40 %	PC	Partial Cut	PN	Plantation
7	70 - 79 %	H	21 % - 30 %	$\mathbf{CC}$	Clear Cut	HR	Hedgerow
8	80 - 89 %	I	11 % - 20 %	$\mathbf{TH}$	Thinning	EP	<b>Excavation Pit</b>
9	90 - 100 %	J	0 % - 10 %				

## SAMPLE DESCRIPTIONS

FOREST STAND DESCRIPTIONS

 $75401 - Stand\ No.$ 

SM5RM4 – Sugar Maple 50%, Red Maple 40%

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

во	Bog	AL	Aiders		
$\mathbf{CL}$	Clear Land	$\mathbf{FL}$	Flowerage	<b>FORES</b>	T GROUND CONDITION
SO	Swamps – Open	$\mathbf{AG}$	Agricultural Land	SW	Wet – Swampy
EP	<b>Excavation Pit</b>	SD	Sand Dune	ST	Steep
$\mathbf{PL}$	Power Line	UR	Urban	$\mathbf{SY}$	Sandy
$\mathbf{C}$	Cemetery	$\mathbf{W}\mathbf{W}$	Water		-

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

							STAI	ND TA	LLY	SHEE	T										
CRUISE	R	S.	Ranki	n	!	STAN	D#		1:	1791			PLA	NTAT	ION	#		39	45:	L51	
PROPERT	Υ#		3904	0				AREA		6.5	ha	3	Date	9	25	/ 10	) /	20	21		
															D		M	Y	<u> </u>		
						SAM	PLE	TREE	INFC	DRM/	ATIO	N									
TREE #	SPP.	AG	E	D.B.H	.	HEIG	HT			TI	REE:	#	SPP		AGE	=	D.	B.H.		HEIG	TH
1	RP		27		5		6			4											
2										5											
3	SAMPLE TREE INFORMATION  REE # SPP. AGE D.B.H. HEIGHT TREE # SPP.																				
	STAND     11791																				
						S	TAN			/ATIO	NC			-					- 1		
Stand Bas	al Area	SW				-	_	M	²/Ha		HW		N	л⁴/Ha		HWSI	L		M²	/Ha	
Species ar	nd (%)	RP7	% BS:	L %	LA:	1 %	WI	P1 %		\	NB,	GB, E	3F								
Even-aged	Х	Uneve	n-aged													Bion	nass	Ш			
Slope	1 %	Aspect	SE						Ш			Ш									
Stand Orig	gin: O	ld Field	Х	Part	ial C	ut		Burn	<u> </u>			Ur	plou	ighed							
	W	/indfall		Non	Fore	est							Ploι	ighed							
	CRUISER   S. Rankin   STAND #   11791   PLANTATION #   3945151																				
Stand Mat	turity Cl	ass:	Reg	generat	ion			Imma	ture		1	Matı	ure			Over-	-mat	ure	L,		
CRUISER   S. Rankin   STAND #   11791																					
Density:	SW	2,000	S. Rankin   STAND #   11791   PLANTATION #   3945151 39040   AREA   6.5   ha   Date   25   10   2021																		
Advanced	Regene	S. Rankin STAND# 11791 PLANTATION # 394515 39040 AREA 6.5 ha Date 25 / 10 / 2021  SAMPLE TREE INFORMATION  AGE D.B.H. HEIGHT TREE # SPP. AGE D.B.H. HI 227 5 6 4 4																			
Regenerat	ion:	1. S	pp.		H	Height				2.	Spp.				Heig	ht					
		3. S	pp.		H	Height				4.	Spp.				Heig	ht					
CRUISER S. Rankin STAND# 11791 PLANTATION# 3945151 PROPERTY# 39040 AREA 6.5 ha Date 25/ 10/ 2021  SAMPLE TREE INFORMATION TREE# SPP. AGE D.B.H. HEIGHT 1 RP 27 S 6 4 4																					
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	_		- 0		ond	ENVIF N	RONN	<mark>//ENTA</mark>	at sp	SERVA Se	: ATIO	_							-		
Drainage:	Poor	Х	Moder	ate	ond	ENVIF N Good	RONN	<mark>//ENTA</mark>	at sp	SERVA Se	: ATIO	_	Ero	osion					-		
Drainage: Snag Trees	Poor s: Ad	X dequate	Moder X	ate Inad	ond equa	ENVIE N Good	S	MENTA Stream Ex	at sp L OB N	SERVA Se	: ATIO	_	Erc	osion					-		
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Drainage: Snag Trees Coarse W Dens N	Poor s: Ac	X dequate aterial: Nests (	Moder X Ad Raptors	Inad equate s, songl	equa	ENVIE N Good Ite	S	MENTA Stream Ex	at sp L OB N	SERVA Se	: ATIO	_	Erc	osion					-		
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			-\GL	-	υ.	Б.П		HE	IGN	-				_		LL #	_	3F I	•		AC	JL		υ.	Б.П	•	HE	GHI
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J	D3						50			10				-														
									ST	AN	D II	NFO	ORN	/AT	10	N												
Stand Bas	al Area	9	SW		M	²/Ha		SV	VSL			$M^2$	/Ha		ŀ	-tW			$M^2$	′Ha		Н١	NSL			M <sup>2</sup>	/Ha	
Species ar	nd (%)	BF3	•	% PO	2	%	R۱	/12	%	GE	32	%				WS	1											
Even-aged		Une	even	n-a ged	Х		2 a	ged														Bi	om	ass				
Slope lev	el %	Asp	ect																									
Stand Orig	gin: O	ld Fie	eld			Part	ial	Cut			Вι	urn					Unj	plo	ugh	ed								
	V	Vindf	all			Non	For	est									ا	Plo	ugh	ed								
	С	lear (	Cut	Χ		Un	kno	wn																				
Stand Mat	turity C	_			_		ion				Imr	nati	ure			М	latu	re	Χ			٥١	er-	mat	ure	Χ		
Stand Stoo	king:	ι	Jnde	erstoc	ked				Full	y St	tock	ked	Х	_		Ove	erst	ock	ed				Pat	chy				
Density:	_			HW	_																							
						ders						-	tock	_		_	Ove	erst	tock					atc	hy		_	
SAMPLE TREE INFORMATION																												
		3	. Sp	op.				Hei	ght					4	. S	pp.					Hei	ght						
									GF	ROU	ND	OBS	SERV	/ATI	ON	S												
Ground Ve	CRUISER																											
	CRUISER   S.R. Rankin   STAND #   11790   PLANTATION #   PROPERTY #   39040   AREA   1.1   ha   Date   25 / 10 / 2021   D   M   Y																											
Ground He	emlock	Ш	Υ/	N X	L																							
REGENERAL S. Rankin STAND # 11790 PLANTATION # 11790 PLANTATION # 1																												
CRUISER S. Rankin STAND # 11790 PLANTATION #																												
				·				EN	VIR	NC	ΛEN	ITAL	OB	SER	VAT	ION	S											
Water Cou	ırse N		В	og	N	Po	ond	N		S	tre	am	N		See	ps	N				В	eav	er F	res	ent	N	Υ/	'N
Drainage:	Poor	Χ		Moder	rate			Go	od			Exc	celle	nt				Er	osi	on	Cor	ntro	l Re	qui	red	N	Υ/	'N
Snag Trees	s: A	dequa	ate	Х	ı	nad	equ	ate																				
Coarse W	oody M	ateria	al:	Ad	equ	ıate	Х		Ir	ade	equ	ate																
PROPERTY #   39040																												
RUISER S. Rankin STAND # 11790 PLANTATION # PROPERTY # 39040 AREA 1.1 ha Date 25 / 10 / 2021																												
Comments	5																									_		
				·					9	TAN	ND F	PRES	SCRI	PTI	ON													·
PROPERTY #   39040																												
Non Forest																												
Regeneration   Stand Basil Area   Stand Basil Are																												
Pre-comm	ercial 1	hinn	ing				Ref	ore	stat	ion			Х			Ripa	ria	n Z	one	M	gmt							
Pln. Maint	t. X	Υ/	N		Ste	ems/	/Ha																					
Regeneration   STAND #   11790   PLANTATION #   PROPERTY #   39040   AREA   1.1   ha   Date   25   10   2021   D   M   Y		2nd																										
	gro	owth.	Har	rvest tl	he S	SW,	WB	and	d so	me	PO.	The	ere i	s a l	low	/ vol	ume	e of	wo	od	pre	sen	ıt bı	ıt th	ie st	and	d ca	n
	be	cut i	n co	njunc	tior	n wit	th a	dja	cent	sta	nds	s. Re	etair	the	e RI	Man	ıd s	om	e P	). F	lar	nt W	/S.					

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CRUISE	ER			S.	Ran	kir	า			STA	ANE	)#			1119	94			PLA	ΙN	ΆΤ	101	# ا						
PROPER	ΓY i	#			39	040	)						ARE	Α	1.1	L	ha		Dat	e		29	/	10	/		21		
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·			1			1.							TREE	IN	IFOR	_		_					_						
TREE #	-	PP.		AGI			D.B	8.H.	-+	HE	IGH			+		_	EE ‡	#	SPF	<u>'.                                    </u>		AG	Ł		D.	B.H		HE	IGH
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3									_					+	-	О													
											ST	AN	ID IN	FΩ	RMA	TIO	N									<u> </u>			
Stand Bas	al	Area		SW		T I	M <sup>2</sup> /	′Ha		SW	VSL			1 <sup>2</sup> /1		_	HW			M <sup>2</sup> /	′На		Н۷	VSL			M	2/H	3
Species a	nd	(%)	LA2		% V	NSI	BS4	%	BF	3	%		%	ś			POF	RM1	_										
Even-aged	x k	ζ	Un	eve	n-ag	ed																	Bi	oma	ass				
Slope lev	/el	%	Asp	ect																									
Stand Ori	gin	: 0	ld Fi	eld			Р	arti	al C	ut			Bur	n				Ur	nplo	ugh	ed								
		W	/ind	fall			N	on	Fore	est									Plo	ugh	ed								
		CI	ear	Cut				Unl	ιnoν	νn																			
Stand Ma	tur	ity Cl	ass:		F	Rege	ene	rati	on				Imma	atu	re		ľ	Mati	ure	Χ			Ov	er-r	nat	ure			
Stand Sto	cki	ng:		Und	lerst	ock	ed				Full	y S	tocke	d			٥٧	ers'	tock	ed	Χ			Pato	chy				
Density:		SW	3,0	000	Н	W		50																					
Advanced	Re	gene	ratio	n:		ι	Jnd	erst	ock	ed	Х		Fully	Sto	ocked			Ov	erst	ock	ed			P	atcl	hy			
Regenerat	tior	า:	:	1. S	pp. I	3F			ŀ	Hei	ght	0.1	.m			2. S	pp.					Hei	ght						
				3. S	pp.				ŀ	Hei	ght					4. S	pp.					Hei	ght						
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Ground V	ege	tatio	n Sp	ecie	es Pro	es ei	nt:		lauı	rel,	sta	r fl	ower,	wi	ld rai	sin,	blu	iebe	erry,	twi	n fl	owe	er. C	Dens	se s	tan	d s	0	
									veg	etat	tion	sp	arse.																
Ground H	em	lock	Х	Υ/	N																								
Invasive S	Spe	cies I	Pres	ent			Υ/	N		ı	f ye	s th	nen w	hat	t s pec	ies:													
Site Indic	ato	rs		Υ/	N					I	f ye	s th	nen w	hat	t s pec	ies:													
										EN'	VIRO	INC	MENT	AL (	OBSEI	RVA	TIOI	NS											
Water Co	urs	e N		E	3og	N	V	Ро	nd	N			Strear	n	N	See	eps	N				В	eav	er P	res	ent	N	Υ	/ N
Drainage:		Poor	Х		Mod	lera	ate			Go	od		E	xce	ellent		•		Er	osi	on	Con	trol	l Re	qui	red	N	Υ	/ N
Snag Tree			dequ	ate				ade	equa																				
Coarse W	00	dy M	ateri	al:			equa	ate	Χ		In	ad	equat	:e															
Dens N			Nes	ts (I	Rapt	ors,	, so	ngb	irds	, et	tc.)	N																	
Wildlife (	Obs	erve	d	Hea	rd s	quir	rrel	S																					
Comment	s																												
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No Treatn	nen	t							Reg	ene			Cut		0			T ac	ree F	Rele	as	e				Blo	ock	Cut	Х
Shelterwo											on (			+				tch (								Str			
Commerc			ning								tati			T		1			epar	ati	on		Х				Ė		
Pre-comm				ning							stat				X				an Z			gmt							
Pln. Main		X	Ι			1	Ster	ns/			*			Ť							- 1								
Comment			-		ce s				_	The	e gro	our	nd is a	300	d. Ha	rves	tin	1-2	yea!	rs.	Pla	nt V	VS.	The	ere v	will	be	hea	IVV
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CRUISE	R			S.	Rank	n			ST	ANI	) #			1:	104	7		F	LAN	ITA	ΓΙΟΙ	N #						
PROPERT	ГҮ #				3904	Ю						AR	EΑ		2.0	ı	าล		ate		29	/	10	/	20	21		
																						)	N	Λ	١	′		
									SA	MP	LE	TRE	EΙ	NFC	DRN	MAT	ION											
TREE#	SP	Ρ.	A	٩GE	E	D.	B.H		HE	IGH	IT					TRE	E#	S	PP.		AG	ìΕ		D.I	В.Н		HE	IGH
1	PO	)						45			18					4												
2																5												
3																6												
C. 15				23.4.4		D 4	2 /1.1-		C		ΆN				ΛA	<u>LION</u>	_			2 /1.1-			V.C.			n 42	/1.1.	
Stand Bas			-	SW	0/ 50	_	<sup>2</sup> /Ha			VSL		_		/Ha			W		_	<sup>2</sup> /Ha	1	HV	VSL			IVI	/Ha	3
Species a	T i	%)	RM5		% PC		%	W	B1	%	S۱۱	<b>/</b> 1	%			GB1	, BF	WSL	.A	-								
Even-aged	_	0.4			n-a ged	-											-	+				Ві	oma	ass				
Slope lev		%	Aspe			-			<u> </u>											μ.								
Stand Ori	gın:		ld Fie	_		1	Part					В	ırn						oloug		_					Н		
			/indf	_	.,	-	Non										+	- 1	Ploug	ned	_							
C+ ! 2.4			ear (	Jut				kno									P 4									,		
Stand Ma							erat	ion	X	- 1		Imr		,				atuı					er-r			Х		
Stand Sto	CKIN	_			lerstoc					Full	ıy S	toci	cea	X			Ove	rsto	cked	_			Pato	cny	_			
Density:	Dag	SW		50	HW	_	100	<b>.</b>		v		r.d	l., C	امما	امما		١,	2		ادمما			D.					
Advanced							ders			_		_	•	tock			_	Jve	rsto	Kea	_	~h+	_	atcl	ıy			
Regenerat	lion				pp. BF					ght	0.2	-4.0	)III			2. Sp				+	Hei	_	_					
			3	. S	pp.				Hei	gnı						I. Sp	μ.			_	Hei	gnt						
																IONS												
Ground Ve	eget	atio	n Spe	ecie	s Pres	ent:	:	_								lden		, bra	acke	า fer	n, w	/ild	rais	sin,	ros	e,		
								clu	bm	oss,	ha	zeln	ut,	grou	und	pine	5											
Ground H				Υ/	N	_																						
Invasive S						Y	/ N		1	-				atsp														
Site Indica	ator	S		Υ/	N					If ye	s th	nen '	wha	atsp	eci	es:												
									EN	VIR	INC	MEN	ITAL	ОВ	SER	VATI	ONS	;										
Water Co	urse	N		E	3og	N	Pc	nd	N		ç	Stre	am	N		Seep	s	N			В	eav	er P	res	ent	N	Y	/ N
Drainage:	P	oor	Х		Mode	rate	<u>د</u>		Go	od			Exc	celle	ent				Eros	ion	Con	itro	l Re	qui	red	N	Y	/ N
Snag Tree	s:	Ac	dequa	ate	Х	ı	nad	equ	ate																			
Coarse W	ood	у Ма	ateria	al:	Ad	equ	ıate	Χ		Ir	nad	equ	ate															
Dens N			Nest	ts (F	Raptor	s, s	ongl	oird	s, e	tc.)	N																	
Wildlife C	Obse	erve	1 b	Von	e obse	rve	d																					
Comments	s																											
	_	_								9	TAI	ND F	PRE	SCRI	PTI	ON					_	_			_			
No Treatm	nent	Т						Res	gene	erati							Crop	Tre	ee Re	leas	e				Blo	ock	Cut	
Shelterwo										on (							atc				Ī	_			Str			
Commerci			ning							stati									para	tion								
Pre-comm				ing						stat									n Zor		gmt					П		
Pln. Main			Υ/	_		Ste	ems/				•					Ħ.		1	1	T						П		
Comments		Thi	-	-	W star	_		-	······································	SM	wit	h th	nick	BF	rege	enera	ation	า 2-	3 m t	all.	The	gro	und	lis	gon	d. 1	No	
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		1.0									-																	

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CRUISE	ER		S	. Rank	in			STA	ND	#		11	43	4		PLA	TN	ΑΤ	ION	#						
PROPER	TY#			390	40					AR	RΕΑ	0	).8	h	a	Dat	e.		29 /	1	10	/	202	21		
																			D		V	1	Υ			
			1.0		1_					_	EE I	NFO	- 1	/ATIC		lone										<u> </u>
TREE #	SPP.		AG	<u> </u>	D.	B.H.		HEI	GHT	_			_	TREE	#	SPF	<u>'.                                    </u>		AGE		-	D.B	.н.		HEI	GH1
1	LA		_		-		27		1	_				4												
3	BF		-		-		16		1	4			_	5 6							_			_		
3		-											_	6						-						
									STA	NDI	NF	ORM	IAT	TION												
Stand Bas	al Are	a	SW		M²	/Ha		SW	_			/Ha		HW	/		M <sup>2</sup> /	′Ha	ŀ	HW:	SL			M <sup>2</sup> ,	/Ha	
Species a	nd (%)	L	A2	% w	SBS4	%	BF	3	%		%			PO	RM1	L										
Even-aged	ΧĿ		Uneve	n-ageo	i	_														Bio	ma	SS				
Slope	9	6 A	Aspect																							
Stand Ori	gin:	Olc	l Field		1	Part	ial C	Cut		В	urn				U	nplo	ugh	ed								
		Wi	ndfall			Non	Fore	est								Plo	ugh	ed								
		Cle	ar Cut	Х		Un	knov	wn																		
Stand Ma	turity	Cla	ss:	Re	gen	erati	on			lmı	mat	ure			Mat	ure	Χ		(	Ove	er-m	atu	ıre			
Stand Sto	cking:		Und	dersto	ked			ا	Fully	Stoc	ked			O	vers	tock	ed	Χ		Ρ	atc	hy				
Density:	S	w_	3,000	HW	<u> </u>	50																				
Advanced	l Regei	nera	tion:		Und	ders	tock	ed		Ful	ly S	tocke	ed		٥١	verst	ock	ed			Pa	tch	у			
Regenerat	tion:		1. S	Spp. Bl	:		ı	Heig	t 0	.2-0.5	5m		2	. Spp					Heigh	nt						
			3. S	pp. RI	VI.		ı	Heig	t 0	.2-0.5	m		4	. Spp	٠				Heigl	nt						
									GRC	UND	ОВ	SERV	ATI	ONS												
Ground V	egetat	ion	Specie	es Pres	ent:		lauı	rel,	star	flowe	er, w	vild r	ais	in. Bl	uebe	erry,	twi	n fl	ower	. De	ens	e st	and	d		
							the	refo	re ve	getat	ion	spar	se													
Ground H	emloc	k _2	X Y/	′ N																						
Invasive S	Specie	s Pr	esent		Υ,	/ N		li	f yes	then	wha	at spe	eci	es:												
Site Indic	ators		Y /	N _				If	fyes	then	wha	at spe	eci	es:												
								EΝ\	/IROI	VMEN	IAT	OBS	ER	VATIC	NS											
Water Co	urse	N		Bog	N	Pc	nd	N		Stre	am	N		Seeps	N				Bea	ave	r Pr	ese	ent	N	Υ/	'N
Drainage:	: Po	or	X	Mode	rate		х	God	od		Ex	celle	nt			Er	osi	on	Contr	ol	Req	uir	ed	N	Υ/	'N
Snag Tree	es:	Ade	quate	Х	ı	nad	equa	ate																		
Coarse W	oody	Mat	erial:	A	dequ	ate	Х		Ina	dequ	ate															
Dens N		N	Nests (	Rapto	s, s	ongt	oirds	s, et	c.)	N																
Wildlife (	Observ	/ed	Hea	ırd sqı	ıirre	ls																				
Comment	s																									
									ST	AND	PRE	SCRIE	PTI	ON												
No Treatn	nent						Reg	ene	ratio	n Cut	t			Cr	ор Т	ree I	Rele	as	e			ı	Blo	ck (	Cut	Х
Shelterwo	od Cu	t					_		on Cu					Pa	etch	Cut						9	Stri	рС	ut	
Commerc	ial Thi	nni	ng				Affc	res	tatio	n				Si	te Pr	epai	ati	on		Χ						
Pre-comm	nercia	l Th	inning				Ref	ores	tatio	n		Х			pari				gmt							
Pln. Main	it.	Х	Y/N		Ste	ems/	'На																			
Comment		_		nd. Ni	ce s	tand	of	woo	d N	latur	e bu	it hea	alth	ny. Ha	rves	tini	2-5	yea	rs. Tl	her	e w	ill b	oe h	iea	/у	
	9	las	h left o	on-site	pos	t ha	rves	t dı	ue to	a lot	of s	mall	BF	Plar	nt W	S.										

										STA	ND T	ALLY	SHEE	Т												
CRUISE	ER		S	. Rar	۱ki	n			ST	AND#	ŧ	11	L462			PL	ΑN	TAT	101	<b>V</b> #						
PROPER	TY#			39	04	0					ARE	Δ :	1.7	ha		Da	te		29	/	10	/	20	21		
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									SA	MPLE	TREE	INFC	RMA	TIO	N											
TREE#	SPI	Ρ.	AG	ìΕ		D.I	В.Н		ΗE	IGHT			TF	REE #	#	SP	Ρ.		AG	ìΕ		D.	В.Н		HE	Gŀ
1	SM	1						36		17	7		4													
2													5													
3													6													
						_				STAN	ND IN		1ATIC	N												
Stand Bas	sal A	rea	SW			M	/Ha		SV	VSL	N	1 <sup>2</sup> /Ha		HW			M	/Ha		HV	VSL	_		M	/Ha	
Species a	nd (9	%)	RM3	%	SM	7	%			%	%			YB,	PO			_								
Even-ageo	ΧĿ		Uneve	en-ag	ed	S														Bi	om	ass				
Slope		%	Aspect	t																						
Stand Ori	gin:	Ole	d Field	<u> </u>		F	Part	ial C	Cut		Bur	n			Ur	nplo	oug	hed								
		Wi	indfall			1	Non	Fore	est							Plo	oug	hed								
		Cle	ear Cut	: X			Un	knov	wn																	
Stand Ma	turit	ty Cla	iss:		Reg	ene	erat	ion			Imma	ture		N	Иat	ure	Х			Ov	er-ı	mat	ure			
Stand Sto	ckin	g:	Un	derst	ock	ed				Fully S	Stocke	d X		Ov	ers	tocl	ked				Pat	chy				
Density:		SW		Н	IW	2,2	200																			
Advanced	l Reg	enera	ation:		į	Jnc	ders	tock	ed	Χ	Fully	Stock	ed		٥٧	ers/	toc	ked			Р	atcl	hy			
Regenerat	tion:		1. 9	Spp.	BF			H	Hei	ght 0.	- 5-4.0n	1	2.	Spp.					Hei	ght						
			3. 9	Spp.				H	Hei	ght			4.	Spp.					Hei	ght						
										GROI	UND O	BSER\	/ΔΤΙΟ	NS												
Ground V	'ρσρτ:			oc Dr	00.0	nt			ro i									۱۸/	ild i		in					
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					ese	111.		dew			rpet o	grou	nd he	mloc	ска	nd 1	rern	1. VV	iiu i	ais	111,	naz	elnı	ıt,		
Ground H	leml	ock	X Y	/ N	ese				be	rry					ска	nd 1	rern	1. VV	iiu i	als	111,	naz	elnı	ıt,		
Ground H Invasive S	leml o	ock ies P	X Y,	/ N	ese		/ N		/be	rry f yes t	hen w	nat sp	ecies	:	ска	nd 1	tern	1. VV		ais	111,	naz	elnı	ıt,		
Ground H Invasive S	leml o	ock ies P	X Y,	/ N	ese			dew	/be I	f yes t	hen w hen w	nat sp nat sp	ecies ecies	:		nd 1	rern			als		naz	elnu	ıt,		
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CRUISER S. Rankin STAND # 101389 PLANTATION # PROPERTY # 39040 AREA 1.0 ha Date 29/ 10 / 2021  TREE # SPP. AGE D.B.H. HEIGHT TREE # SPP. AGE D.B.H. HEIGHT AGE OF TREE # SPP. AGE D.B.H. HEIGHT AGE											S	TA	ND	TΑ	LLY	SHI	EET	•												
PROPERTY #   39040																														
SAMPLE TREE IN FORMATION					S.					ST	ANI	D #					39					ΓΑΤ	_							
SAMPLE TREE   INFORMATION	PROPE	RTY	#			3904	0						AR	EA		1.0		ha		Da	te						-			
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STAND INFORMATION  Stand Basal Area SW M²/Ha SWSL M²/Ha HW M²/Ha HWSL M²/Ha Species and (%) RM2 % GB1 % PO2 % BF3 % BSLA2, WP Biomass Slope I % Aspect SE Stand Origin: Old Field Partial Cut Burn Unploughed Ploughed Clear Cut X Unknown Immature X Mature X Over-mature Stand Stocking: Understocked Fully Stocked X Overstocked Patchy Density: SW 800 HW 800 Advanced Regeneration: Understocked X Fully Stocked X Overstocked Patchy X Regeneration: 1. Spp. BFBS Height (0.2-3.0m 2. Spp. Height Aspecies: Site of Species Present: Wild raisin, bunch berry, alder, laurel, bunch berry, blueberry, ground pine bracken fern  GROUND OBSERVATIONS  GROUND OBSERVATIONS  Wild raisin, bunch berry, alder, laurel, bunch berry, blueberry, ground pine bracken fern Site Indicators Y/N If yes then what species: Site Indicators Y/N Independent Aspectation Species Present Aspectation Species Present Site Indicators Y/N Ind		F	KIVI	_					20			14				_														
Stand Basal Area   SW   M³/Ha   SWSL   M²/Ha   HW   M³/Ha   HWSL   M²/Ha   Species and (%)   RNQ   %   GB1   %   PO2   %   BF3   %   BSLA2, WP	3												_				ь													
Stand Basal Area   SW   M³/Ha   SWSL   M²/Ha   HW   M³/Ha   HWSL   M²/Ha   Species and (%)   RNQ   %   GB1   %   PO2   %   BF3   %   BSLA2, WP											ST	ΔΝ	וחו	NEC	) R N	ΛΔ٦	ΓIO	N												
Species and (%) RM2 % GB1 % PO2 % BF3 % BSLA2, WP Biomass Slope I % Aspect SE Stand Origin: Old Field Partial Cut Burn Unploughed Ploughed Clear Cut X Unknown Stand Advanced Regeneration: Understocked Fully Stocked X Overstocked Patchy Density: SW 800 HW 800 Advanced Regeneration: Understocked X Fully Stocked Overstocked Patchy X Regeneration: 1. Spp. BFBS Height (0.2-3.0m) 4. Spp. Height Occident Aspp. Height Occident Asp	Stand Ba	asal	Area	S	w		M	²/Ha		SV	_	AIN	וטו			71/7 1					M <sup>2</sup>	/Ha		HV	VSL			M²	/На	1
Even-aged X Uneven-aged Slope 1 % Aspect SE Stand Origin: Old Field Partial Cut Burn Unploughed Ploughed Clear Cut X Unknown Ploughed Stand Maturity Class: Regeneration Immature X Mature X Over-mature Stand Stocking: Understocked Fully Stocked X Overstocked Patchy Density: SW 800 HW 800 Advanced Regeneration: Understocked X Fully Stocked X Overstocked Patchy X Regeneration: Understocked X Fully Stocked Overstocked Patchy X Regeneration: 1. Spp. BFBS Height 0.2-3.0m 4. Spp. Height Particle Stand Stocking Species Present: Wild raisin, bunch berry, alder, laurel, bunch berry, blueberry, ground pine bracken fern  Ground Vegetation Species Present: Wild raisin, bunch berry, alder, laurel, bunch berry, blueberry, ground pine bracken fern  Ground Hemlock Y/N X If yes then what species: Site Indicators Y/N If yes then what species: Site Indicator					_	% GB	_	i	PC			BI	F3		,			_	W	'P									,	
Stand Origin: Old Field	•				_					_	,,,			,,,					,					Bi	oma	ass				
Stand Origin: Old Field																											_			
Stand Maturity Class: Regeneration   Immature   X   Mature   X   Over-mature   Stand Stocking: Understocked   Fully Stocked   X   Overstocked   Patchy   Density: SW   800   HW   800   HW   800   Advanced Regeneration: Understocked   X   Fully Stocked   Overstocked   Patchy   X   Regeneration: 1. Spp. BFBS   Height   0.2-3.0m   2. Spp.   Height   Warden   Warden		rigi						Part	ial (	Cut			В	urn					Ur	olar	ugl	ned								
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Chase the SW and retain the HW. The site is wetter. Plant BS.	Commer	nts:																		2nc	d gr	owt	n. T	ne s	tar	nd is	SSC	rag	gly.	
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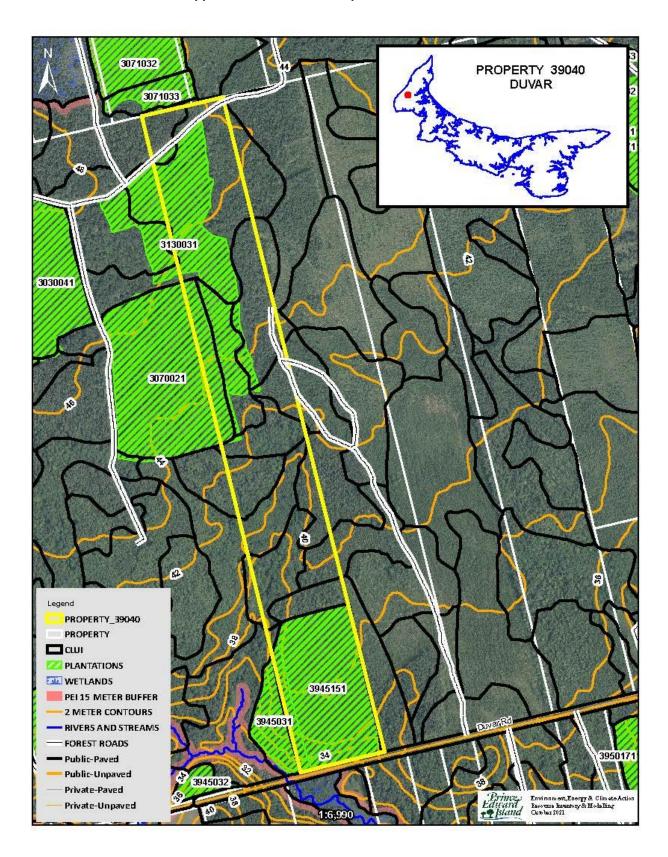
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**Appendix F. Plantation Map with Contour Lines** 



# Appendix G. Work Completed

Activity Number	Treatment Code	Amount Completed	Treatment Date	Treatment Description
0	1	0.2	10/26/1994	Class 1 Road Construction
0	14	1.6	8/6/1992	Boundary Line Establishment
	16A	0.2	1/18/2012	Manual roadside trimming (brush saw)
3130516	16B	0.2	11/25/2013	Mechanical roadside trimming
3160529	16B	0.5	9/8/2016	Mechanical roadside trimming
3945151	25B	6.77	10/14/1993	Chemical Broadcast
3941511	29	6.77	11/19/1993	Raking Crawler Tractor-Root Rake:per Ha
3130031	30B	7854	6/19/2013	Manual Site Preparation per Site (Hawk)
3945151	53W	10640	5/26/1994	RED PINE - WESTERN
3945151	56W	3943	5/26/1994	WHITE PINE - WESTERN
3130031	56W	7854	6/19/2013	WHITE PINE - WESTERN
3945151	82B	6.77	10/2/1997	Herbicide: Broadcast: 1st Treatment
0	92	4.5	12/21/1992	Clearcut Block
3120561	93	4.23	10/10/2012	Patch Cut