

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



Woodlot Management Plan

Property Number: 28787

Location: Conway

Date: April 14, 2016

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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 # 28787 is located on the Conway Road, in the community of Conway, P.E.I., (Appendix A). The total area of this property is 21.3 hectares (53.25 acres) and the midpoint of the property is Latitude N 46.665424 decimal degrees, Longitude W -64.007322 decimal degrees.

Past Information

Local records and previous aerial photography show that little has changed with regards to forested land upon this property. To better illustrate this 1968 photography can be seen in Appendix B.

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 two large wetlands on the property (Appendix A). A 15 metre buffer zone is to be maintained around the wetlands.

Property Access

The front part of the property is accessed from the Conway Road. A road is not required however; a landing area along the Conway Road is required for wood stockpiling and off – highway access. Two wetlands transect the property from the west boundary to the east boundary preventing access to forested lands north of the wetlands. In the future, any work that may occur on the forested area north of the wetlands will require access through adjacent private land. For the purpose of this plan no work is scheduled for lands north of the wetlands.

Property Boundaries

This property borders the Conway Road to the south and private land to the west, north and east.

Fire Protection

This property is located within the jurisdiction of the Tyne Valley Fire Department. The amount of personnel and equipment used to fight any forest fires will depend greatly upon the size and severity of the fire. Protection of our woodland from forest fire is the responsibility of the Forestry Division and our local community fire brigades. In the Western District, there 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 middle of the property would be a suitable site to setup a portable fire pump system.

Planting and Silviculture

There are two 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 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

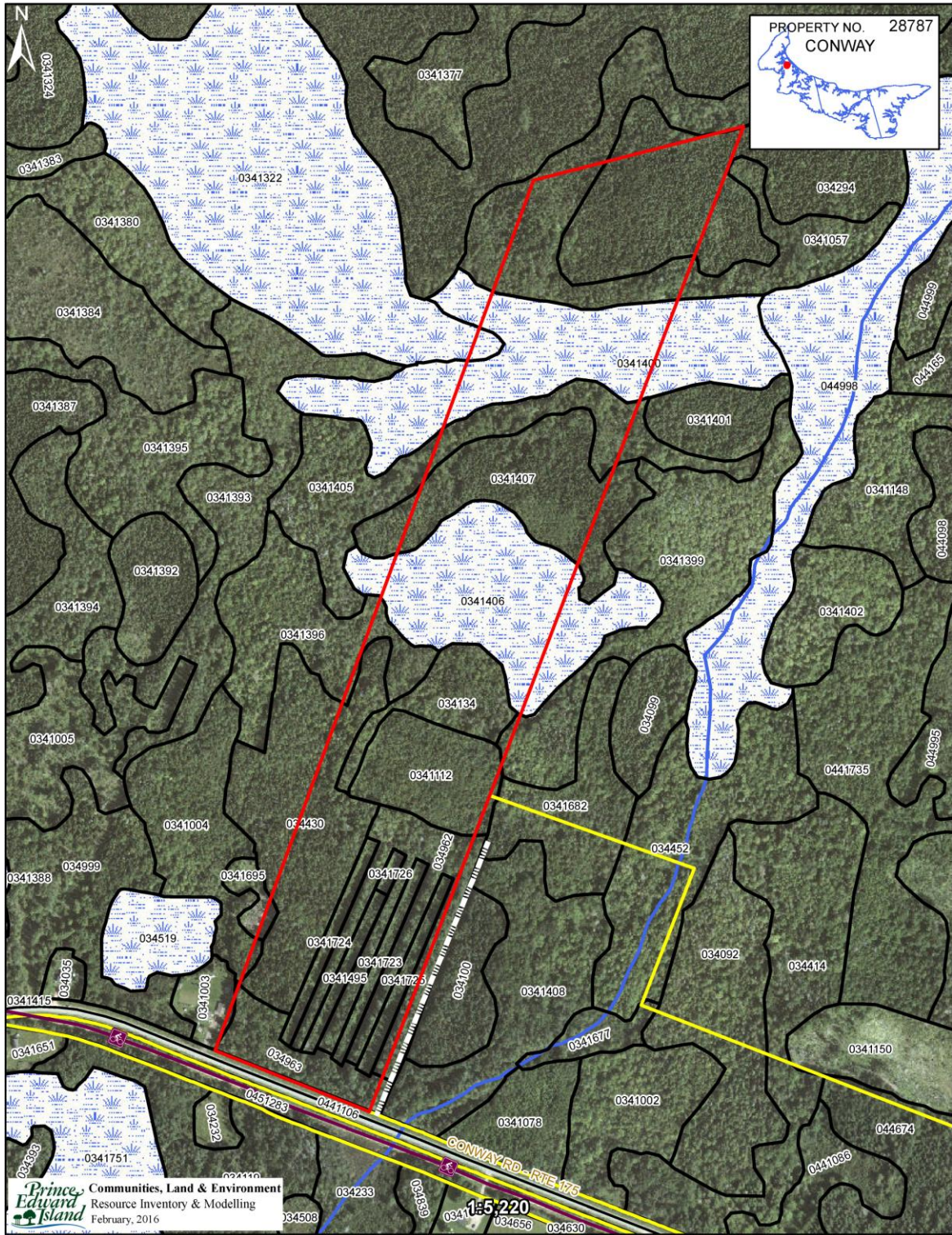
The 2006 Forest Policy “Moving to Restore a Balance in Island Forests” lays out the framework for Public Land Forest management. The Eco-Manual provides details for prescribed treatments. All work completed on this property must comply with that manual. Table 1 provides a summary of the prescribed treatments on this property. 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.gov.pe.ca/go/eco-manual. Any additional information may be obtained by contacting a Provincial Forest representative at the District Forestry Office in Wellington.

Table 1. Proposed Treatment Summary.

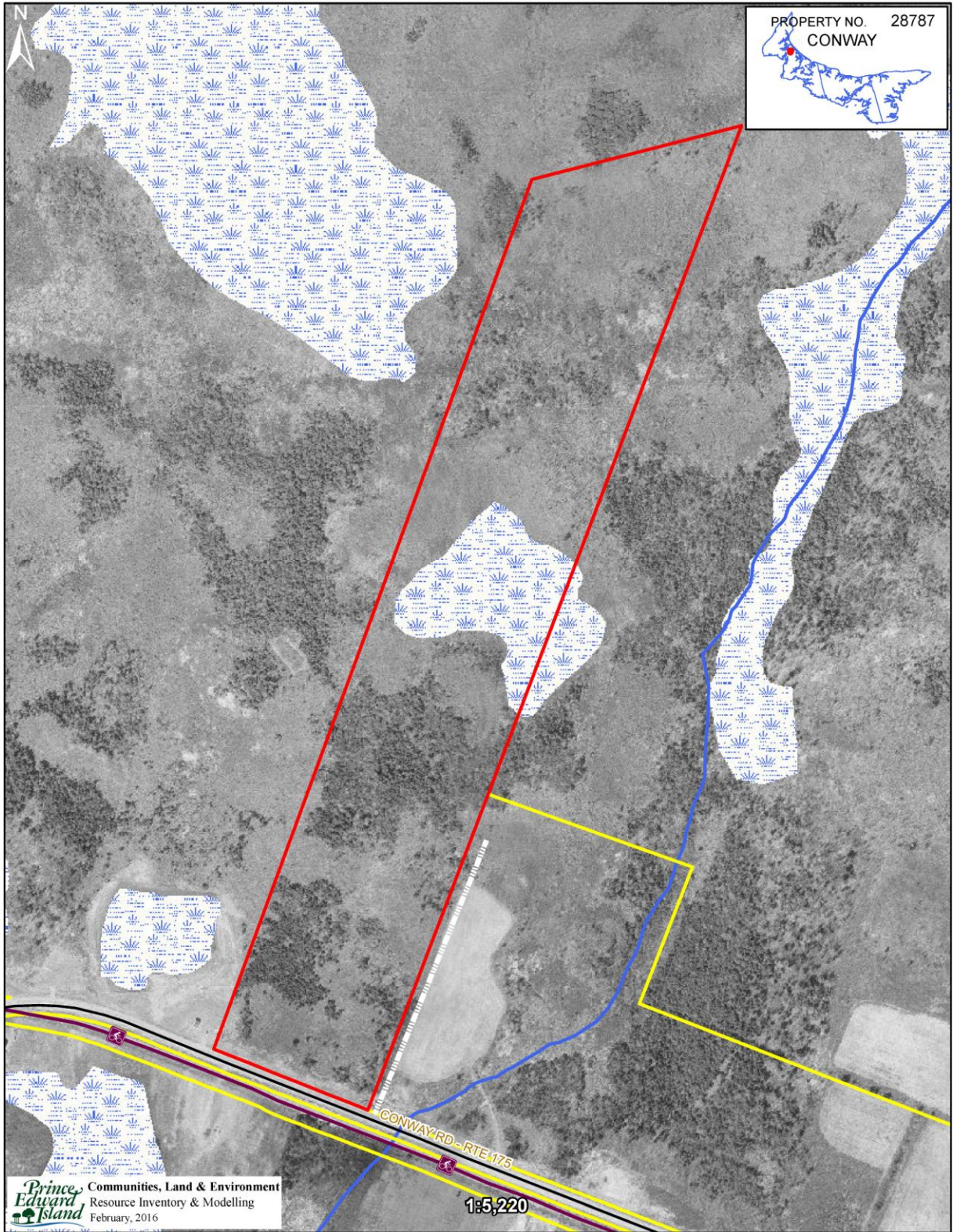
Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	2014 Eco-Manual Reference	Comments	Goals
34963	Block Harvest	2017	1.0	Pg. 32	Retain RM	Salvage mature and overmature
34963	Site Preparation	2018	1.0	Pg. 15	Remove ground vegetation	Create plantable spots
34963	Full Plant	2018	1.0	Pg 17	Plant species ecologically suited to the site	Regenerate the site
34963	Manual Plantation Maintenance	2021	1.0	Pg 19	Eliminate undesirable competing vegetation	Improve growth of crop trees
34430	Block Harvest	2017	2.3	Pg. 32	Stand is overmature. Blowdown is occurring	Salvage declining stand
34430	Site Preparation	2018	2.3	Pg. 15	Remove ground vegetation	Create plantable spots
34430	Full Plant	2018	2.3	Pg 17	Plant species ecologically suited to the site	Regenerate the site
34430	Manual Plantation Maintenance	2021	2.3	Pg 19	Eliminate undesirable competing vegetation	Improve growth of crop trees

Appendices

Appendix A. Map of Property with Locator Map



Appendix B. 1968 Aerial Photography



Appendix C. 2010 Corporate Land Use Inventory

FIELDID	COV1	PER1	COV2	PER2	COV3	PER3	COV4	PER4	COV5	PER5	HEIGHT	HA
0341406	AL	5	BS	3	CE	2		0		0	8	2.94
034294	BS	9	PO	1		0		0		0	12	2.23
0341407	BS	7	PO	2	BF	1		0		0	10	2.20
0341400	PO	4	RM	4	DT	1	BS	1		0	16	2.23
0341396	RM	3	WB	3	AL	3	BF	1		0	5	0.41
034430	RM	4	BF	2	PO	2	WB	2		0	15	2.34
034134	RM	4	PO	2	WB	2	BS	1	BF	1	14	1.13
0341004	RM	5	PO	2	WB	2	BF	1		0	12	0.04
0341112	BS	3	PO	3	RM	2	WB	2		0	6	1.61
034963	PO	4	RM	3	WB	2	BF	1		0	16	0.93
034962	PO	2	RM	2	WB	2	WS	2	RS	2	15	1.95
0341695	CC	10		0		0		0		0	0	0.05
0341495	WA	2	BF	2	WS	2	PO	2	RM	2	3	0.31
0341723	WA	2	BF	2	WS	2	PO	2	RM	2	3	0.37
0341724	WA	2	BF	2	WS	2	PO	2	RM	2	3	0.37
0341725	WA	2	BF	2	WS	2	PO	2	RM	2	3	0.38
0341726	BA	2	BF	2	WS	2	PO	2	RM	2	3	0.08
0341057	PO	4	BS	3	RM	2	BF	1		0	16	1.43
0341405	RM	4	PO	3	BF	1	BS	1	WB	1	12	0.96
0341399	RM	5	WB	2	LA	1	BF	1	RS	1	16	0.05

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 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 overlaid 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 #	34963			PLANTATION #			
PROPERTY #	28787			AREA	1.0	ha	Date	8 /	2 /	2016	
								D	M	Y	
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	WS	62	27	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 (%)	PO3	%	WS3	%	BF1	%	RM2	%	CE1	GBWB	
Even-aged	X		Uneven-aged	X						Biomass	
Slope		%	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		Fully Stocked	X	Overstocked		Patchy				
Density:	SW	400	HW	600							
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.	BF	Height	0.3-2.5	2. Spp.		Height				
	3. Spp.	RM	Height	2	4. Spp.		Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	Wildrasin. Wnter. Did not tally.										
Ground Hemlock		Y / N	N								
Invasive Species Present		Y / N	N		If yes then what species:						
Site Indicators		Y / N	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 mixedwood stand. Harvest PO, WB, GB, SW. Retain RM. Prepare plantable spots and plant WS, LA, WA. Maybe put in a few red oak for diversity.										

STAND TALLY SHEET											
CRUISER	S. Rankin			STAND #	341725, 723, 495, 724			PLANTATION #	4970000		
PROPERTY #	28787			AREA	1.4	ha	Date	8 / 2 / 2016	D	M	Y
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	PO	18	2	6	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	%	GB3	%	BF1	%	PO2	%	WA, BS1, RO		
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	X	Immature		Mature		Over-mature	X			
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked	X	Patchy				
Density:	SW	600	HW	8,000							
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.	BF	Height	0.3-2.5	2. Spp.		Height				
	3. Spp.	RM	Height	2	4. Spp.		Height				
GROUND OBSERVATIONS											
Ground Vegetation Species Present:	Winter. Did not tally.										
Ground Hemlock	Y / N										
Invasive Species Present	Y / N	If yes then what species:									
Site Indicators	Y / N	If yes then what species:									
ENVIRONMENTAL OBSERVATIONS											
Water Course	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	X	Inadequate								
Dens	N	Nests (Raptors, songbirds, etc.)	N								
Wildlife Observed	Rabbit tracks observed.										
Comments											
STAND PRESCRIPTION											
No Treatment		X	Regeneration Cut		Crop Tree Release		Block Cut				
Shelterwood Cut			Selection Cut		Patch Cut		Strip Cut				
Commercial Thinning			Afforestation		Site Preparation						
Pre-commercial Thinning			Reforestation		Riparian Zone Mgmt						
Pln. Maint.			Stems/Ha								
Comments:	These are regenerated strip cuts within a tree improvement area. The Tree Improvement Section requested that no work be completed within this area.										

STAND TALLY SHEET											
CRUISER		S. Rankin		STAND #		34962		PLANTATION #			
PROPERTY #		28787		AREA		2.4 ha		Date		8 / 2 / 2016	
								D M Y			
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.
1	BS	69	28	18	4						
2					5						
3					6						
STAND INFORMATION											
Stand Basal Area		SW		M ² /Ha		SWSL		M ² /Ha		HW	
Species and (%)		BS4 %		PO3 %		WB1 %		RM2 %		GB, BS, BF	
Even-aged		X		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		Over-mature		X	
Stand Stocking:		Understocked		Fully Stocked		X		Overstocked		Patchy	
Density:		SW 800		HW 600							
Advanced Regeneration:		Understocked		X		Fully Stocked		Overstocked		Patchy	
Regeneration:		1. Spp. BF		Height 0.3-1.6m		2. Spp.		Height			
		3. Spp. BS		Height 0.0-1.6m		4. Spp.		Height			
GROUND OBSERVATIONS											
Ground Vegetation Species Present:		Winter. Did not tally.									
Ground Hemlock		Y / N									
Invasive Species Present		Y / N		If yes then what species:							
Site Indicators		Y / N N		If yes then what species:							
ENVIRONMENTAL OBSERVATIONS											
Water Course		N		Bog		N		Pond		N	
Stream		N		Seeps		Y		Beaver Present		N Y / N	
Drainage:		Poor X		Moderate		Good		Excellent		Erosion Control Required	
		N		Y / N						N Y / N	
Snag Trees:		Adequate X		Inadequate							
Coarse Woody Material:		Adequate X		Inadequate							
Dens		N		Nests (Raptors, songbirds, etc.)		N					
Wildlife Observed		Rabbit tracks observed.									
Comments											
STAND PRESCRIPTION											
No Treatment		X		Regeneration Cut				Crop Tree Release		Block Cut	
Shelterwood Cut				Selection Cut				Patch Cut		Strip Cut	
Commercial Thinning				Afforestation				Site Preparation			
Pre-commercial Thinning				Reforestation				Riparian Zone Mgmt			
Pln. Maint.		Y / N		Stems/Ha							
Comments:		This stand is primarily a tree improvement area which the Tree Improvement Section requested that it not be touched. That part of the stand north of the tree improvement area is wet and harvest is not recommended.									

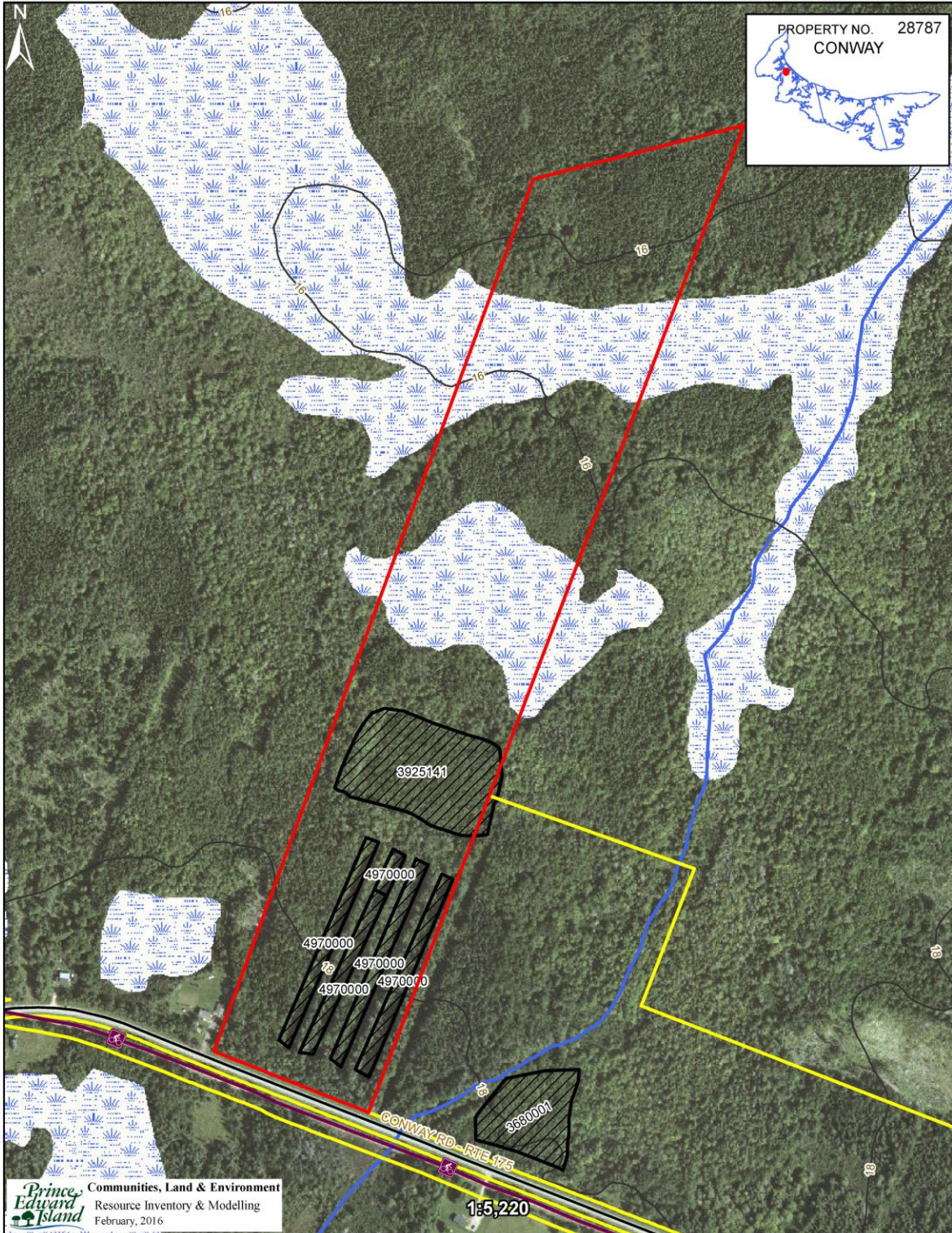
STAND TALLY SHEET													
CRUISER		S. Rankin		STAND #		34430		PLANTATION #					
PROPERTY #		28787		AREA		2.3 ha		Date		8 / 2 / 2016			
								D M Y					
SAMPLE TREE INFORMATION													
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT				
1	WS	72	28	20	4								
2					5								
3					6								
STAND INFORMATION													
Stand Basal Area		SW	M ² /Ha		SWSL	M ² /Ha		HW	M ² /Ha		HWSL	M ² /Ha	
Species and (%)		WS/BS %	PO1 %	RM1 %									
Even-aged		X		Uneven-aged		Biomass							
Slope level		% Aspect											
Stand Origin:		Old Field	X		Partial Cut	Burn		Unploughed					
		Windfall			Non Forest	Ploughed							
		Clear Cut			Unknown								
Stand Maturity Class:		Regeneration		Immature		Mature		Over-mature X					
Stand Stocking:		Understocked		Fully Stocked		X		Overstocked		Patchy			
Density:		SW	1400		HW	400							
Advanced Regeneration:		Understocked		Fully Stocked		Overstocked		X		Patchy			
Regeneration:		1. Spp. BF		Height 0.3-0.6m		2. Spp.		Height					
		3. Spp.		Height		4. Spp.		Height					
GROUND OBSERVATIONS													
Ground Vegetation Species Present:		Winter. Did not tally.											
Ground Hemlock		Y / N											
Invasive Species Present		Y / N		If yes then what species:									
Site Indicators		Y / N		If yes then what species:									
ENVIRONMENTAL OBSERVATIONS													
Water Course		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		Rabbit tracks 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:		Harvest as soon as possible. The stand is overmature and starting to blowdown. Prepare microsites and plant WS/BS. The back portion of the stand is extremely wet. Do not harvest this wet area (CE in it). Conduct a maintenance on planted portion when needed.											

STAND TALLY SHEET													
CRUISER		S. Rankin		STAND #		34134		PLANTATION #					
PROPERTY #		28787		AREA		1.1 ha		Date		8 / 2 / 2016			
								D M Y					
SAMPLE TREE INFORMATION													
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT				
1	LA	43	11	12	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 (%)		LA3	%	CE2	%	BS2	%	GB2	%	RM1	WB		
Even-aged		<input checked="" type="checkbox"/>		Uneven-aged						Biomass			
Slope level		% Aspect											
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed					
		Windfall		Non Forest				Ploughed					
		Clear Cut		<input checked="" type="checkbox"/>		Unknown							
Stand Maturity Class:		Regeneration		Immature		<input checked="" type="checkbox"/>		Mature		Over-mature			
Stand Stocking:		Understocked		Fully Stocked		<input checked="" type="checkbox"/>		Overstocked		Patchy			
Density:		SW	800	HW	2,600								
Advanced Regeneration:		Understocked		<input checked="" type="checkbox"/>		Fully Stocked		Overstocked		Patchy			
Regeneration:		1. Spp. BS		Height 0.3-1.3m		2. Spp.		Height					
		3. Spp. BF		Height 0.3-1.3m		4. Spp.		Height					
GROUND OBSERVATIONS													
Ground Vegetation Species Present:		Winter. Did not tally.											
Ground Hemlock		<input type="checkbox"/>		Y / N									
Invasive Species Present		<input type="checkbox"/>		Y / N		If yes then what species:							
Site Indicators		<input type="checkbox"/>		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	<input checked="" type="checkbox"/>	Moderate		Good		Excellent		Erosion Control Required		N Y / N	
Snag Trees:		Adequate		<input checked="" type="checkbox"/>		Inadequate							
Coarse Woody Material:		Adequate		<input checked="" type="checkbox"/>		Inadequate							
Dens		N		Nests (Raptors, songbirds, etc.)		N							
Wildlife Observed		Rabbit tracks observed.											
Comments													
STAND PRESCRIPTION													
No Treatment		<input type="checkbox"/>		<input checked="" type="checkbox"/>		Regeneration Cut				Crop Tree Release		Block Cut	
Shelterwood Cut		<input type="checkbox"/>		Selection Cut				Patch Cut				Strip Cut	
Commercial Thinning		<input type="checkbox"/>		Afforestation				Site Preparation					
Pre-commercial Thinning		<input type="checkbox"/>		Reforestation				Riparian Zone Mgmt					
Pln. Maint.		<input type="checkbox"/>		Y / N		Stems/Ha							
Comments:		This is a very wet site. Leave it as is.											

STAND TALLY SHEET															
CRUISER		S. Rankin		STAND #		341112		PLANTATION #		3925141					
PROPERTY #		28787		AREA		1.8 ha		Date		8 / 2 / 2016					
								D M Y							
SAMPLE TREE INFORMATION															
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT						
1	BS	25	10	9	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 (%)		BS3	%	BF1	%	GB4	%	RM1	%	PO1					
Even-aged		X		Uneven-aged						Biomass	X				
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	X						
Stand Stocking:		Understocked		Fully Stocked	X	Overstocked	X	Patchy							
Density:		SW	1000	HW	5,000										
Advanced Regeneration:		Understocked	X	Fully Stocked		Overstocked		Patchy							
Regeneration:		1. Spp.	BF	Height	0.3-2.5	2. Spp.		Height							
		3. Spp.	RM	Height	2	4. Spp.		Height							
GROUND OBSERVATIONS															
Ground Vegetation Species Present:		Winter. Did not tally.													
Ground Hemlock		Y / N													
Invasive Species Present		Y / N		If yes then what species:											
Site Indicators		Y / N		If yes then what species:											
ENVIRONMENTAL OBSERVATIONS															
Water Course		N		Bog	N	Pond	N	Stream	N	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		Rabbit tracks observed.													
Comments															
STAND PRESCRIPTION															
No Treatment				X		Regeneration Cut		Crop Tree Release		Block Cut					
Shelterwood Cut						Selection Cut		Patch Cut		Strip Cut					
Commercial Thinning						Afforestation		Site Preparation							
Pre-commercial Thinning						Reforestation		Riparian Zone Mgmt							
Pln. Maint.		X	Y / N			Stems/Ha									
Comments:		This plantation is of limited success. There is a heavy cover of GB. BS is patchy. A commercial thinning is not warranted due to health, vigor, density and form of trees. This will be a good biomass site in the future. Wet seeps in places.													

STAND TALLY SHEET											
CRUISER		S. Rankin		STAND #		341396		PLANTATION #			
PROPERTY #		28787		AREA		0.4 ha		Date		8 / 2 / 2016	
								D M Y			
SAMPLE TREE INFORMATION											
TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	LA	52	15	14	4						
2					5						
3					6						
STAND INFORMATION											
Stand Basal Area		SW		M ² /Ha		SWSL		M ² /Ha		HW	
Species and (%)		RM4 %		LA2 %		BS2 %		WB2 %		CE	
Even-aged <input checked="" type="checkbox"/>		Uneven-aged								Biomass	
Slope level %		Aspect									
Stand Origin:		Old Field		Partial Cut		Burn		Unploughed			
		Windfall		Non Forest				Ploughed			
		Clear Cut		Unknown		<input checked="" type="checkbox"/>					
Stand Maturity Class:		Regeneration		Immature		Mature <input checked="" type="checkbox"/>		Over-mature			
Stand Stocking:		Understocked		Fully Stocked <input checked="" type="checkbox"/>		Overstocked		Patchy			
Density:		SW		HW							
Advanced Regeneration:		Understocked <input checked="" type="checkbox"/>		Fully Stocked		Overstocked		Patchy			
Regeneration:		1. Spp. BS		Height 0.3-1.3m		2. Spp.		Height			
		3. Spp. BF		Height 0.3-1.3m		4. Spp.		Height			
GROUND OBSERVATIONS											
Ground Vegetation Species Present:		Winter. Did not tally.									
Ground Hemlock		Y / N									
Invasive Species Present		Y / N		If yes then what species:							
Site Indicators		Y / N		If yes then what species:							
ENVIRONMENTAL OBSERVATIONS											
Water Course		N		Bog		N		Pond		N	
Stream		N		Seeps		N		Beaver Present		N Y / N	
Drainage:		Poor <input checked="" type="checkbox"/>		Moderate		Good		Excellent		Erosion Control Required	
		<input checked="" type="checkbox"/>								N Y / N	
Snag Trees:		Adequate <input checked="" type="checkbox"/>		Inadequate							
Coarse Woody Material:		Adequate <input checked="" type="checkbox"/>		Inadequate							
Dens		N		Nests (Raptors, songbirds, etc.)		N					
Wildlife Observed		Rabbit tracks observed.									
Comments											
STAND PRESCRIPTION											
No Treatment		<input checked="" type="checkbox"/>		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:		No treatment is warranted on this site at this time.									

Appendix F. Plantation Map with Contour Lines



Appendix G. Work Completed

Activity Number	Treatment Code	Amount Completed	Treatment Date	Treatment Description
0	1	0.33	12/18/1990	Class 1 Road Construction
0	16A	0.33	1/16/2012	Manual roadside trimming (brush saw)
3911531	25B	1.5	9/28/1990	Chemical Broadcast
3925141	25B	2.25	9/16/1991	Chemical Broadcast
0	25B	1.1	10/26/1992	Chemical Broadcast
3925141	29	2.25	11/12/1991	Raking Crawler Tractor-Root Rake:per Ha
3925141	51W	3410	7/13/1992	BLACK SPRUCE - WESTERN
3925741	82B	2.25	10/18/1995	Herbicide:Broadcast : 1st Treatment
3925141	88C	1.85	1/16/2012	Class 3 : Manual : 10001-15000/Ha <6 Metres
3925051	91	1.5	3/18/1992	Strip Cut