

Date: January 23rd, 2026

P.E.I.

Public Forests



Woodlot Management Plan

Property Number: 52415

Location: Richmond

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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 # 52415 is located on the Western Road, Route #2, in the community of Richmond, P.E.I., (Appendix A). The total area of this property is 30.35 hectares (75 acres) and the midpoint of the property is Latitude N 46.528385 decimal degrees, Longitude W -63.989739 decimal degrees.

Past Information

Local records and previous aerial photography show that little has changed with regards to forested land upon this property. It appears that all of the land is original woodland and was never cleared for farmland. However, it was accessed from time to time to provide various timber products.

-Aerial photography from 1935 showed most of the property not being actively used at this point. A clearcut from the north on adjacent lands extended to the northeast part of the property.

-By 1958, photos show a couple of small patch cuts by the highway.

-In 1968, a large portion of the east end of the property was regenerating from clearcutting between 1958 and 1968. Also, a couple of small patch cuts can be noted to the southwest and near the northwest.

-By 1974, cuts were noted to the north with fingers extending into the woodland.

-In 1990, the large developing plantation is evident in the west portion of the property. The east end that had been harvested prior to 1968 was developing with no disturbance.

To better illustrate some of the observations, 1935 & 1968 photography can be seen in Appendix B and Appendix C.

Property Information

The information in Appendix D has been taken from the 2020 Corporate Land Use Inventory. An explanation of forestry code meanings can be seen in Appendix E. Any stands that have proposed silvicultural treatment prescriptions are to have on-ground stand assessments completed prior to any work being started. This on-ground assessment information is included in this plan as updated stand tally sheets (Appendix F) and supplements the extrapolated data where applicable. A topographic map of the property shows the general terrain profile, the ranges in elevation and the plantations currently on the property (Appendix G).

Wetland and Watercourses

There is one stream located on the property. It follows the boundary near the southwest portion of the property while flowing west to east. It then flows south to north and bisects the property. This stream is identified as the Trout River and it eventually leads to the large pond in the community of Tyne Valley. Three feeder streams are shown contributing to the main stream within the property boundaries. The observation of the streams location on this property can be viewed in Appendix A.

Property Access

There are no roads on this property. An old access point from the highway can be found in the woodlot to the northwest corner. It is expected that any access to the eastern portion will need to be resolved through adjacent lands. The stream and associated wetland and softer sensitive soils adjacent are not ideal for constructing access. Ongoing road maintenance will be required to keep any road in a useable condition. This will include keeping the right-of-way clear of any brush or trees, repairing rutting

on the road, repairing any wet areas that restrict access, and any other maintenance required to keep this road usable. (Appendix A)

Property Boundaries

This property is bounded on the south, east, and north by private land. The western boundary fronts on the Western Road (Route #2). The presence of some old blazed trees was noted within the mapped property boundary. Some research may be required to confirm the location of the northern boundary before completing any work adjacent to this boundary. The southern boundary may also have some issues as noted by cutting patterns.

Fire Protection

This property is located within the jurisdiction of the Wellington Fire Department. The amount of personnel and equipment used to fight any forest fires will depend greatly upon the size and severity of the fire. Protection of our woodland from forest fire is the responsibility of the Forests, Fish and Wildlife Division and our local community fire brigades. In the Western District, there are four-wheel drive forestry fire trucks housed at the Wellington, West Point and New Glassgow 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 2 plantations on the property. These plantations are identified as "Tree Improvement" sites. These sites are utilized as research plantations to be used to track development of

planting stock produced by the Provincial forest tree nursery. 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). (“No treatments should be completed before consulting with the Provincial Nursery”!) A list of all silviculture treatments completed on the property from 1991- present is shown in Appendix H.

Proposed Treatments

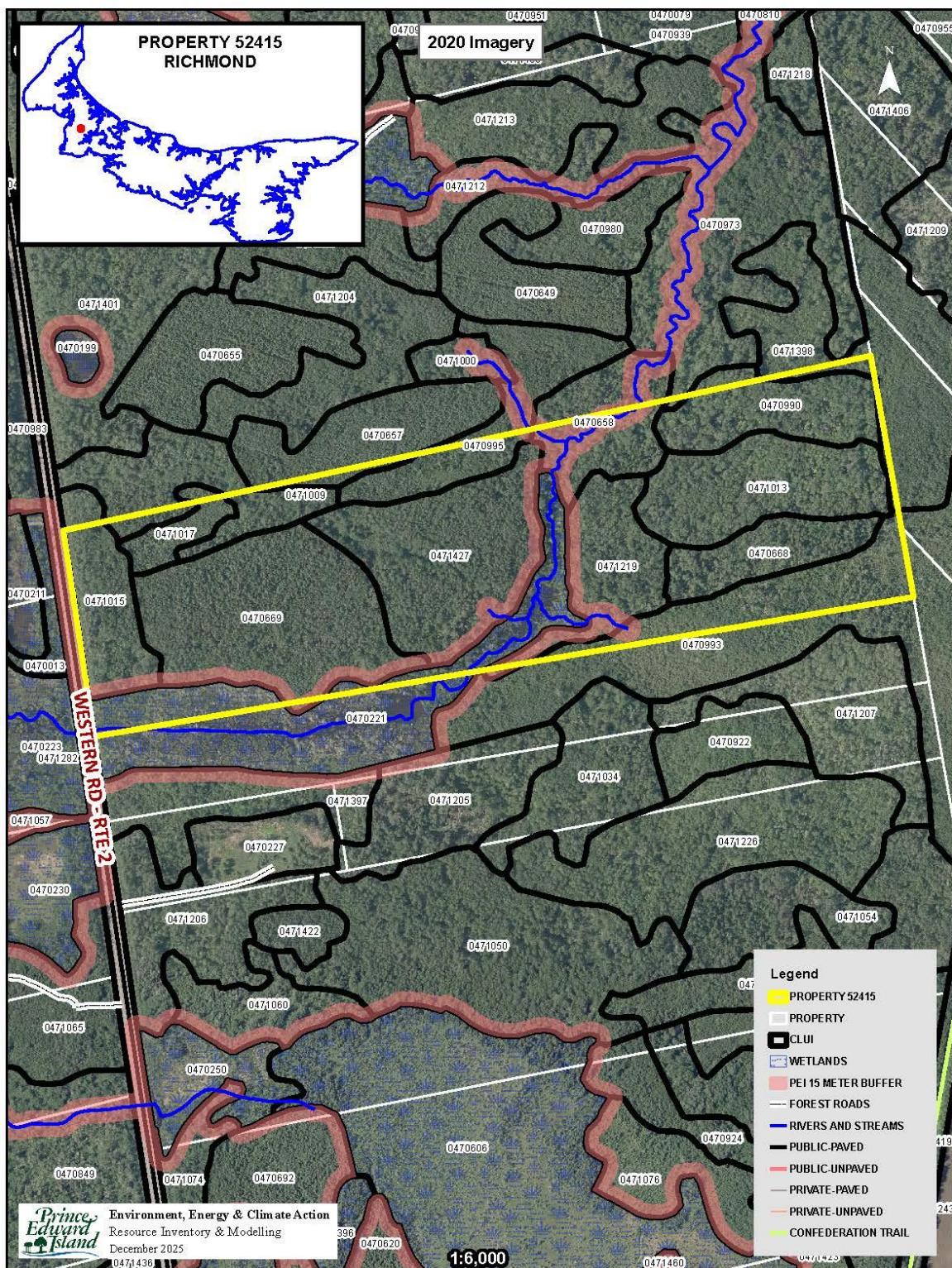
The 2006 Forest Policy “Moving to Restore a Balance in Island Forests” lays out the framework for Public Land Forest management. The Eco-Manual provides details for prescribed treatments. All work completed on this property must comply with that manual. Table 1 provides a summary of the prescribed treatments 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.

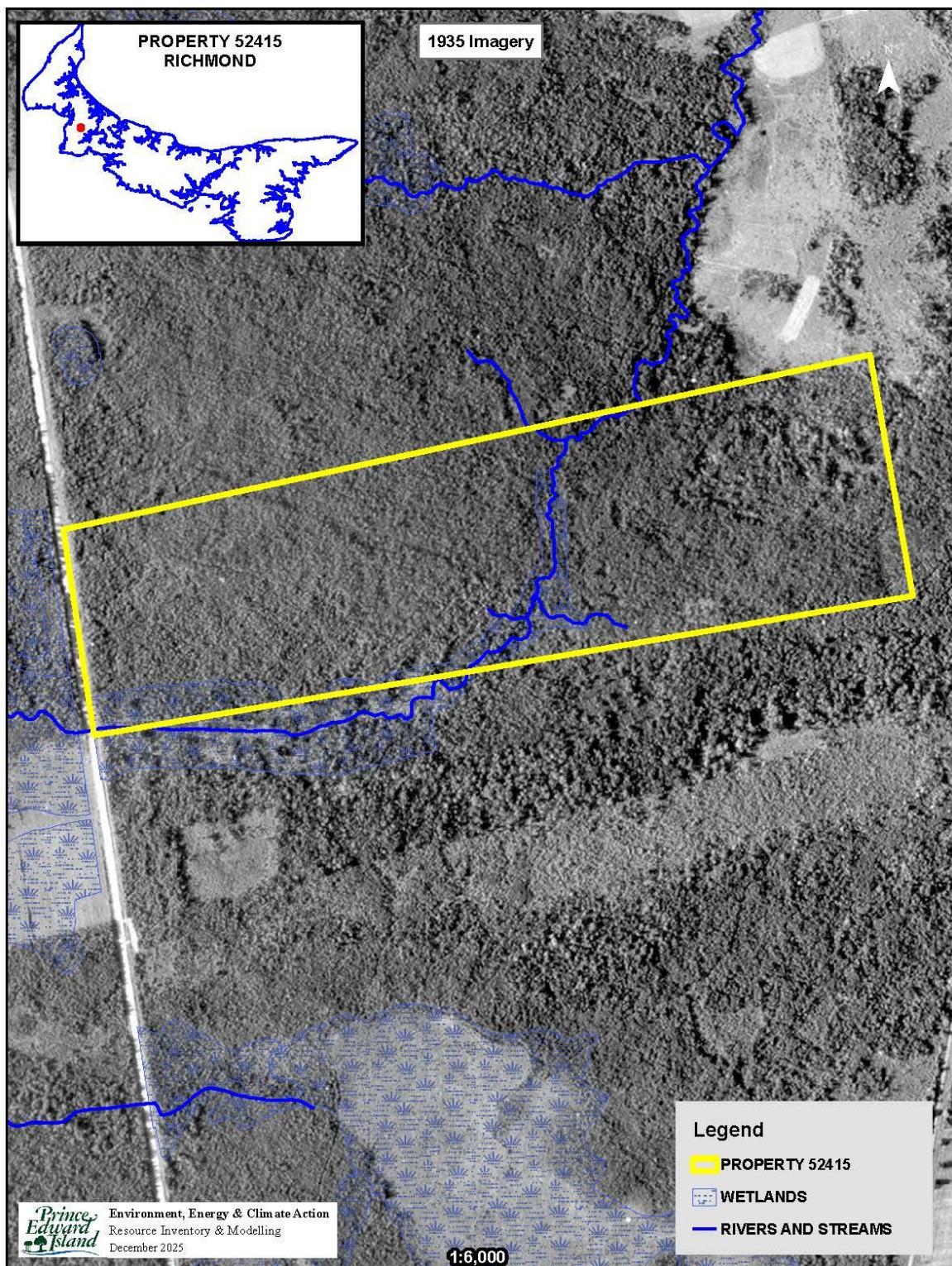
Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	Comments	Goals
	N/A			Drainage issues throughout property limiting growth and access potential. Property boundary research should be done to identify actual PID boundaries.	No treatment at this time. Leave property to develop naturally.

Appendices

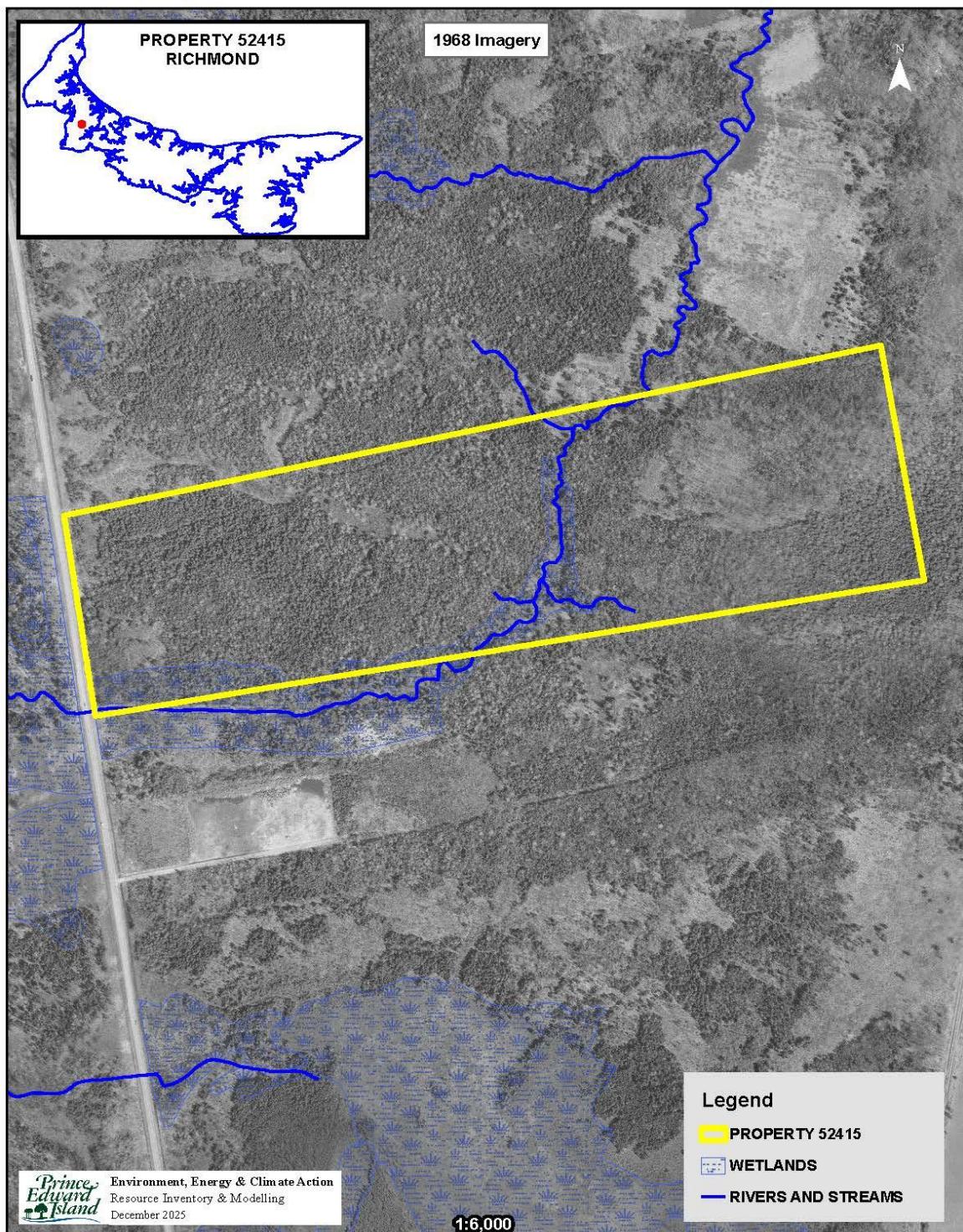
Appendix A. Map of Property with Locator
Map



Appendix B. 1935 Aerial Photography



Appendix C. 1968 Aerial Photography



Appendix D. 2020 Corporate Land Use Inventory

FIELD ID 2020	FIELD HECTARES	FIELD ID 2010	COVER1	PER1	COVER2	PER2	COVER3	PER3	COVER4	PER4	COVER5	PER5	HEIGHT	CROWN	WOODSTOCK	Fuel_Code
0470221	2.47			0		0		0		0		0	0	0		O1
0470657	0.21	0471104	LA	6	WB	2	PO	1	RM	1		0	8	85	LAIH	C6
0470658	1.26	047070	RM	4	WS	2	WB	2	BF	1	PO	1	15	65	IHMX	M2-50
0470668	1.61	047068	WS	4	PO	2	RM	2	WB	1	BF	1	16	65	SWIH	C2
0470669	5.38	047330	BS	5	PO	2	BF	1	RM	1	WB	1	13	85	SPIH	C6
0470973	0.03	047052	RM	5	PO	2	BF	1	WS	1	WB	1	18	85	IHMX	D2
0470990	2.06	0471103	RM	4	PO	3	WS	2	WB	1		0	16	75	IHMX	D2
0470993	2.24	047150	PO	3	WB	3	BF	2	RM	2		0	4	75	IHMX	D2
0470995	1.02	0471102	BF	4	RM	3	WS	1	PO	1	WB	1	11	85	SWIH	M2-50
0471009	0.98	0471373	RM	5	PO	2	BF	1	BS	1	WB	1	12	75	IHMX	D2
0471427	4.43	0471100	PO	5	RM	2	BF	1	WS	1	WB	1	15	85	IHMX	D2
0471013	3.16	047271	RM	5	PO	3	WS	1	WB	1		0	17	80	IHMX	D2
0471015	1.66	047301	PO	3	RM	3	WB	2	BS	1	LA	1	13	75	IHMX	D2
0471017	0.61	047067	PO	3	BS	3	RM	2	WB	1	BF	1	6	65	IHSW	M2-50
0471219	2.20	0471100	RM	6	PO	2	WS	1	WB	1		0	17	90	IHMX	D2
0471282	0.01		PAV	10		0		0		0		0	0	0		
0471398	0.25	0471098	PO	4	RM	2	WB	2	PC	1	BF	1	7	90	IHMX	D2

Appendix E. Forest Inventory Codes

EXPLANATION OF FORESTRY 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	DT	Dead Tree

PERCENT

0	1 - 9%	A	91% - 100%
1	10 - 19%	B	81% - 90%
2	20 - 29%	C	71% - 80%
3	30 - 39%	D	61% - 70%
4	40 - 49%	E	51% - 60%
5	50 - 59%	F	41% - 50%
6	60 - 69%	G	31% - 40%
7	70 - 79%	H	21% - 30%
8	80 - 89%	I	11% - 20%
9	90 - 100%	J	0% - 10%

CROWN CLOSURE

ORIGIN AND HISTORY

BR - Burn	DI - Disease-Insect
BD - Blow Down	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 overlay 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	Agriculture Land
EP	Excavation Pit	SD	Sand Dune
PL	Power Line	UR	Urban
C	Cemetery	WW	Water

FOREST GROUND CONDITIONS

SW	Wet-Swampy
ST	Steep
SY	Sandy

Appendix F. Stand Tally Sheets from on the Ground Assessment

STAND TALLY SHEET												
CRUISER	M.Buchanan		STAND #	471015 PLANTATION #								
PROPERTY #	52415			AREA	1.66 ha	Date	13 /	1 /	2026	D	M	
SAMPLE TREE INFORMATION												
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	
1	PO	60	36.8	16m	30	4						
2	WS	40	19.8	11m	50	5						
3	RM	50	26.5	15m	30	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	%	RM2	%	BF2	%	WB10	%	WS,BS,GB 10%			
Even-aged	x	Uneven-aged							Biomass			
Slope		%	Aspect	e								
Stand Origin:	Old Field		Partial Cut		Burn		Unploughed					
	Windfall		Non Forest				Ploughed					
	Clear Cut		Unknown	x								
Stand Maturity Class:	Regeneration		Immature		Mature	x	Over-mature					
Stand Stocking:	Understocked		Fully Stocked	x	Overstocked		Patchy					
Density:	SW	1,000	HW	1,200								
Advanced Regeneration:	Understocked	x	Fully Stocked		Overstocked		Patchy					
Regeneration:	1. Spp. PO		Height	1m	2. Spp. BF		Height	1.5m				
	3. Spp.		Height		4. Spp.		Height					
GROUND OBSERVATIONS												
Ground Vegetation Species Present:	Wild raisen, bracken fern, aster. Snowcover											
Ground Hemlock	x	Y / N										
Invasive Species Present		Y / N	x	If yes then what species:								
Site Indicators		Y / N	x	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		Moderate	x	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												
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	x	Stems/Ha									
Comments:												
The stand is neighbouring the Western Rd highway. The Stand is a multcoholt mixed wood stand with PO, WS, RS, RM, WB in the upper canopy and BF, WS, BS, PO regenerating in the understory. Drainage is better in the northern section of the stand and poor to the south. Potential boundary line issues on north stand boundary. No treatment at this time.												

STAND TALLY SHEET												
CRUISER	M.buchanan		STAND #	471017 & 470995			PLANTATION #					
PROPERTY #	52415		AREA	1.63 ha		Date	1 /	13 /	2026			
							D	M				
SAMPLE TREE INFORMATION												
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	
1	RS	80+	34.5	16m	60	4	BF	15	<10	5	80	
2	BS	80+	30.5	16m	40	5	BS	20	<10	7	70	
3	PO	65	25.4	16m	30	6	BF	10	<10	6	80	
STAND INFORMATION												
Stand Basal Area	SW	M ² /Ha	SWSL	M ² /Ha	HW	M ² /Ha	HWSL	M ² /Ha				
Species and (%)	BF3	%	PO3	%	BS2	%	RM2	%				
Even-aged	x	Uneven-aged							Biomass			
Slope	2 %	Aspect	E									
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	10,000	HW	2,000								
Advanced Regeneration:		Understocked	x	Fully Stocked		Overstocked		Patchy				
Regeneration:	1. Spp.		Height		2. Spp.		Height					
	3. Spp.		Height		4. Spp.		Height					
GROUND OBSERVATIONS												
Ground Vegetation Species Present:	Snowcover Wild raisen, bunchberry, aster											
Ground Hemlock	x	Y / N										
Invasive Species Present		Y / N	x	If yes then what species:								
Site Indicators		Y / N	x	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		Moderate	x	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												
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	x	Stems/Ha									
Comments:	Clarify the property boundary. Strip of mature BS, RS, PO suspect past harvest boundary. Moderate drainage. Difficult access as a poorly drained stand divides these two stands. Stands are immature and are ready for a high-density thinning; however, natural self-thinning over time is recommended, as access and growth potential for future merchantability are limited due to the site location and species makeup (Mainly BF). No treatment at this time.											

STAND TALLY SHEET

CRUISER	M.Buchanan	STAND #	471009, 470657	PLANTATION #	
PROPERTY #	52415	AREA	1.19 ha	Date	13 / 1 / 2026
				D	M Y

SAMPLE TREE INFORMATION

Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%
1	PO	65	26.3	17m	30	4					
2	RM	65	23.5	15m	40	5					
3	WB	40	18.6	15m	30	6					

STAND INFORMATION

Stand Basal Area	SW	M ² /Ha	SWSL	M ² /Ha	HW	M ² /Ha	HWSL	M ² /Ha
Species and (%)	RM40 %	PO30 %	AL30 %	%				
Even-aged	Uneven-aged	x					Biomass	
Slope %	Aspect	E						
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		Fully Stocked		Overstocked		Patchy	x
Density:	SW 200	HW 1,200						
Advanced Regeneration:	Understocked	x	Fully Stocked		Overstocked		Patchy	
Regeneration:	1. Spp.		Height		2. Spp.		Height	
	3. Spp.		Height		4. Spp.		Height	

GROUND OBSERVATIONS

Ground Vegetation Species Present: alder, sensitive fern, sheep laurel, holly,

Ground Hemlock Y / N x

Invasive Species Present Y / N x If yes then what species:

Site Indicators Y Y / N If yes then what species: Sensitive fern

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	Inadequate	x			
Coarse Woody Material:	Adequate	Inadequate	x			
Dens N	Nests (Raptors, songbirds, etc.)	N				
Wildlife Observed						
Comments						

STAND PRESCRIPTION

No Treatment	x	Regeneration Cut		Crop Tree Release		Block Cut
Shelterwood Cut		Selection Cut		Patch Cut		Strip Cut
Commercial Thinning		Afforestation		Site Preparation		
Pre-commercial Thinning		Reforestation		Riparian Zone Mgmt		
Pln. Maint.	Y / N x	Stems/Ha				
Comments:	This stand exhibits features & characteristic of a drainage strip, with a drainage pattern traveling southeast from the northern property, entering this stand, crossing ST 471427, and then flowing into the trout river system. This drainage system can be seen in Appendix C (1968 imagery). Stand is majority alder and intolerant HW with some older RM, PO. Stand has wildlife values and should remain natural. No treatment. Potential boundary line issues.					

STAND TALLY SHEET

CRUISER	M.Buchanan	STAND #	471427	PLANTATION #							
PROPERTY #	52415	AREA	4.43 ha	Date	13 /	1 /	2026	D	M	Y	
SAMPLE TREE INFORMATION											
Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%
1	PO	46	26.5	16m	30	4					
2	WB	46	23.8	14m	30	5					
3	BF	46	15.6	11m	50	6					

STAND INFORMATION											
Stand Basal Area	SW	M ² /Ha	SWSL	M ² /Ha	HW	M ² /Ha	HWSL	M ² /Ha			
Species and (%)	PO4	%	BF3	%	RM2	%	WB10	%			
Even-aged	Uneven-aged	x							Biomass		
Slope	%	Aspect	E								
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	x			
Regeneration:	1. Spp.	BF	Height	1m	2. Spp.	PO	Height				
	3. Spp.		Height		4. Spp.		Height				

GROUND OBSERVATIONS											
Ground Vegetation Species Present:	Sensitive fern, bunchberry snowcover										
Ground Hemlock	x	Y / N									
Invasive Species Present		Y / N	x	If yes then what species:							
Site Indicators	x	Y / N		If yes then what species:	Sensitive fern						

ENVIRONMENTAL OBSERVATIONS													
Water Course	N		Bog	N	Pond	N	Stream	N	Seeps	Y	Beaver Present	N	Y / N
Drainage:	Poor	x	Moderate	x	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	Snow shoe hare. Fox												
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	x	Stems/Ha								
Comments:											
Drainage issues. The south-eastern boundary has a buffer zone (Trout River). Immature high-density mixedwood stand. PO is dominating the upper canopy with high-density BF, RM, PO, and BS mix in the understory. Non-merchantable, no treatment at this time.											

STAND TALLY SHEET

CRUISER	M.Buchanan	STAND #	470669	PLANTATION #	4800000	
PROPERTY #	52415	AREA	5.38 ha	Date	13 / 1 / 2026	
				D	M	Y

SAMPLE TREE INFORMATION

Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%	Tree#	SPP.	AGE	D.B.H.	HEIGHT	LCR%
1	BS	46	17	14m	60	4	RS	80	41cm	16m	80
2	BF	46	19.9	14m	50	5					
3	WB	46	15.7	14m	30	6					

STAND INFORMATION

Stand Basal Area	SW	M ² /Ha	SWSL	M ² /Ha	HW	M ² /Ha	HWSL	M ² /Ha
Species and (%)	BS4	%	BF2	%	WB10	%	PO10	%
Even-aged	x	Uneven-aged						Biomass
Slope	NA	%	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	1,500	HW	800				
Advanced Regeneration:	Understocked		Fully Stocked	x	Overstocked		Patchy	
Regeneration:	1. Spp.	RM	Height	3m	2. Spp.	BF	Height	1m
	3. Spp.	RM	Height	1m	4. Spp.		Height	

GROUND OBSERVATIONS

Ground Vegetation Species Present:

Sensitive fern, Wild raisen, beaked hazel, wood fern, bayberry, sheep laurel

Ground Hemlock x Y / N

Invasive Species Present Y / N x If yes then what species:

Site Indicators x Y / N If yes then what species: Swamp dewberry

ENVIRONMENTAL OBSERVATIONS

Water Course	Y	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

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 x Stems/Ha

Comments:

1980 BS and LA research plantations. Poor drainage and poor site for merchantable tree growth.

Heavy equipment should not operate here; evidence of rutting is still apparent on the site from 1980.

Shallow root depth is causing a lot of blowdown and CWD content across the stand. V-plow site prep. plantation is majority BS with a small section approx 0.59 Ha being LA in the SE corner of stand.

No treatment at this time.

STAND TALLY SHEET

CRUISER L. Stevenson STAND # 52415 47070 PLANTATION # 1.27 ha AREA Date 13 / 1 / 2015
 PROPERTY # D M Y

SAMPLE TREE INFORMATION				
TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	BS	80	37	18
2	PO	80	38	19
3	RM	80	40	17
4	RM	47	18	13
5				
6				

STAND INFORMATION				
Stand Basal Area	SW	M ² /Ha	SWSL	M ² /Ha
Species and (%)	RM40 %	PO20 %	BS20 %	WB10 %
Even-aged	_____	Uneven-aged X	_____	Biomass _____
Slope	1 %	Aspect N _____	_____	_____
Stand Origin:	Old Field	Partial Cut	Burn	Unploughed X
	Windfall	Non Forest	_____	Ploughed _____
	Clear Cut	Unknown	_____	_____
Stand Maturity Class:	Regeneration	Immature X	Mature X	Over-mature X
Stand Stocking:	Understocked	Fully Stocked X	Overstocked	Patchy _____
Density:	SW 500	HW 1,500	_____	_____
Advanced Regeneration:	Understocked X	Fully Stocked	Overstocked	Patchy _____
Regeneration:	1. Spp. _____	Height _____	2. Spp. _____	Height _____
	3. Spp. _____	Height _____	4. Spp. _____	Height _____

GROUND OBSERVATIONS				
Ground Vegetation Species Present:	beaked hazel (snow cover)			
	*patch of ground Hemlock noted to north			
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	Bog	Pond	Stream X	Seeps X	Beaver Present Y Y / N
Drainage:	Poor	Moderate	Good X	Excellent	Erosion Control Required Y Y / N
Snag Trees:	Adequate	Inadequate X	_____	_____	_____
Coarse Woody Material:	Adequate	Inadequate X	_____	_____	_____
Dens	Nests (Raptors, songbirds, etc.)				_____
Wildlife Observed	beaver chew and dam noted, black-capped chickadee				
Comments	den noted in PO snag (raccoon?), snags through the riparian zone				

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:	no treatment in this area, the stand is mixed, open patches with immature hardwoods, old PO, some older RM, understory with immature RM scattered, young hardwoods scattered in patches where beave removed smaller PO stems, this stand is important for wildlife and water quality values, leave this area natural to benefit wildlife						

STAND TALLY SHEET

CRUISER L. Stevenson STAND # 471103 PLANTATION # 52415
 PROPERTY # AREA 1.7 ha Date 13 / 1 / 2015
 D M Y

SAMPLE TREE INFORMATION				
TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	RM	80	34	19
2	RM	80	30	19
3	SM	80	30	19
4				
5				
6				

STAND INFORMATION							
Stand Basal Area	SW	<u> </u> M ² /Ha	SWSL	<u> </u> M ² /Ha	HW	<u> </u> M ² /Ha	HWSL <u> </u> M ² /Ha
Species and (%)	RM50 %	<u> </u>	SM20 %	<u> </u> PO20 %	<u> </u> YB10 %	<u> </u> WS	<u> </u>
Even-aged	X	Uneven-aged	<u> </u>				Biomass <u> </u>
Slope	<u> </u> %	Aspect	L				
Stand Origin:	Old Field	<u> </u>	Partial Cut	X	Burn <u> </u>	Unploughed	X
	Windfall	<u> </u>	Non Forest	<u> </u>		Ploughed	<u> </u>
	Clear Cut	<u> </u>	Unknown	<u> </u>			
Stand Maturity Class:	Regeneration	<u> </u>	Immature	<u> </u>	Mature	X	Over-mature <u> </u>
Stand Stocking:	Understocked	<u> </u>	Fully Stocked	X	Overstocked	<u> </u>	Patchy <u> </u>
Density:	SW	<u> </u>	HW	1,000			
Advanced Regeneration:	Understocked	X	Fully Stocked	<u> </u>	Overstocked	<u> </u>	Patchy <u> </u>
Regeneration:	1. Spp.	<u> </u>	Height	<u> </u>	2. Spp.	<u> </u>	Height <u> </u>
	3. Spp.	<u> </u>	Height	<u> </u>	4. Spp.	<u> </u>	Height <u> </u>

GROUND OBSERVATIONS							
Ground Vegetation Species Present:	sensitive fern, wild raisin, ground Hemlock, beaked hazel, mountain maple (snow cover)						
Ground Hemlock	X	Y / N					
Invasive Species Present	<u> </u>	Y / N	<u> </u>	If yes then what species:			
Site Indicators	<u> </u>	Y / N	<u> </u>	If yes then what species:			

ENVIRONMENTAL OBSERVATIONS							
Water Course	<u> </u>	Bog	<u> </u>	Pond	<u> </u>	Stream	<u> </u>
Drainage:	Poor	X	<u> </u>	Moderate	<u> </u>	Good	<u> </u>
Snag Trees:	Adequate	<u> </u>		Inadequate	X		
Coarse Woody Material:	Adequate	X	<u> </u>	Inadequate	<u> </u>		
Dens	<u> </u>	Nests (Raptors, songbirds, etc.)					
Wildlife Observed							
Comments	some old BF snags, old PO, noted EM snag to east						

STAND PRESCRIPTION							
No Treatment	X	<u> </u>	Regeneration Cut	<u> </u>	Crop Tree Release	<u> </u>	Block Cut <u> </u>
Shelterwood Cut	<u> </u>		Selection Cut	<u> </u>	Patch Cut	<u> </u>	Strip Cut <u> </u>
Commercial Thinning	<u> </u>		Afforestation	<u> </u>	Site Preparation	<u> </u>	
Pre-commercial Thinning	<u> </u>		Reforestation	<u> </u>	Riparian Zone Mgmt	<u> </u>	
Pln. Maint.	<u> </u>	Y / N	<u> </u>	Stems/Ha	<u> </u>		
Comments:	leave this area natural to protect soft soils and SM content, wet stand, hummocks, a few quality SM stems, openings to the west may be old cut pattern (boundary location?), more WS to the east end and coppice RM, soft sensitive soils over most of stand						

STAND TALLY SHEET

CRUISER L. Stevenson STAND # 47151 PLANTATION # 52415
 PROPERTY # 3.57 ha Date 13 / 1 / 2015
D M Y

SAMPLE TREE INFORMATION				
TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	RM	85	32	21
2	PO	85	40	23
3				
4				
5				
6				

STAND INFORMATION									
Stand Basal Area	SW	<u> </u> M ² /Ha	SWSL	<u> </u> M ² /Ha	HW	<u>44</u> M ² /Ha	HWSL	<u> </u> M ² /Ha	
Species and (%)	RM	<u>70</u> %	PO	<u>20</u> %	<u> </u> %	<u> </u> %	WB,SM,WS(YB)		
Even-aged	X	Uneven-aged					Biomass		
Slope	<u> </u> %	Aspect	L						
Stand Origin:	Old Field	<u> </u>	Partial Cut	<u> </u>	Burn	<u> </u>	Unploughed	X	
	Windfall	<u> </u>	Non Forest	<u> </u>			Ploughed		
	Clear Cut	X	Unknown	<u> </u>					
Stand Maturity Class:		Regeneration	<u> </u>	Immature	<u> </u>	Mature	X	Over-mature	<u> </u>
Stand Stocking:		Understocked	<u> </u>	Fully Stocked	X	Overstocked	<u> </u>	Patchy	<u> </u>
Density:	SW	<u> </u>	HW	<u>1,500</u>					
Advanced Regeneration:		Understocked	<u> </u>	Fully Stocked	<u> </u>	Overstocked	<u> </u>	Patchy	X
Regeneration:	1. Spp.	BF	<u> </u>	Height	<u>2</u>	2. Spp.	<u> </u>	Height	<u> </u>
	3. Spp.		<u> </u>	Height	<u> </u>	4. Spp.	<u> </u>	Height	<u> </u>

GROUND OBSERVATIONS							
Ground Vegetation Species Present:	<u>beaked hazel, wild raisin (snow cover)</u>						
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	<u> </u>	Bog	<u> </u>	Pond	<u> </u>	Stream	<u> </u>	Seeps	<u> </u>	Beaver Present	<u> </u>	Y / N
Drainage:	Poor	<u> </u>	Moderate	<u> </u>	Good	X	Excellent	<u> </u>		Erosion Control Required	<u> </u>	Y / N
Snag Trees:	Adequate	<u> </u>	Inadequate	X								
Coarse Woody Material:	Adequate	<u> </u>	Inadequate	X								
Dens	<u> </u>	Nests (Raptors, songbirds, etc.)										
Wildlife Observed												
Comments	<u>future PO snags ("large-tooth Aspen")</u>											

STAND PRESCRIPTION							
No Treatment	X	Regeneration Cut	<u> </u>	Crop Tree Release	<u> </u>	Block Cut	<u> </u>
Shelterwood Cut		Selection Cut	<u> </u>	Patch Cut	<u> </u>	Strip Cut	<u> </u>
Commercial Thinning		Afforestation	<u> </u>	Site Preparation	<u> </u>		
Pre-commercial Thinning		Reforestation	<u> </u>	Riparian Zone Mgmt	<u> </u>		
Pln. Maint.	<u> </u> Y / N	Stems/Ha	<u> </u>				
Comments:	<u>noted dominant 25m tall WS, coppice RM and single stems (tall with good health and vigor), pocket of SM noted, patch of PO to west, this stand has good heights, this is a good growing site, quality stems throughout, very heavy volume due to density diameters and heights, no treat at this time, aesthetically pleasing</u>						

STAND TALLY SHEET

CRUISER L. Stevenson STAND # 52415 47068 PLANTATION # 1.68 ha AREA Date 15 / 1 / 2015
 PROPERTY # D M Y

SAMPLE TREE INFORMATION				
TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	BS	80	35	16
2	RM	75	27	14
3				
4				
5				
6				

STAND INFORMATION								
Stand Basal Area	SW	<u> </u> M ² /Ha	SWSL	<u> </u> M ² /Ha	HW	<u> </u> M ² /Ha	HWSL	<u> </u> M ² /Ha
Species and (%)	BS40	%	RM40	%	BF20	%	WS	%
Even-aged	<u>X</u>	Uneven-aged	<u> </u>				Biomass	<u> </u>
Slope	<u> </u> %	Aspect	<u>L</u>					
Stand Origin:	Old Field	<u> </u>	Partial Cut	<u> </u>	Burn	<u> </u>	Unploughed	<u>X</u>
	Windfall	<u>X</u>	Non Forest	<u> </u>			Ploughed	<u> </u>
	Clear Cut	<u> </u>	Unknown	<u> </u>				
Stand Maturity Class:	Regeneration	<u> </u>	Immature	<u> </u>	Mature	<u>X</u>	Over-mature	<u>X</u>
Stand Stocking:	Understocked	<u> </u>	Fully Stocked	<u>X</u>	Overstocked	<u> </u>	Patchy	<u> </u>
Density:	SW	<u>1,000</u>	HW	<u>500</u>				
Advanced Regeneration:	Understocked	<u> </u>	Fully Stocked	<u>X</u>	Overstocked	<u> </u>	Patchy	<u> </u>
Regeneration:	1. Spp. BF	<u> </u>	Height	<u>1</u>	2. Spp. BS	<u> </u>	Height	<u>0.5</u>
	3. Spp.	<u> </u>	Height	<u> </u>	4. Spp.	<u> </u>	Height	<u> </u>

GROUND OBSERVATIONS							
Ground Vegetation Species Present:	<u>wild raisin, sphagnum moss, feather moss</u>						
Ground Hemlock	<u> </u>	Y / N	<u>X</u>	<u> </u>			
Invasive Species Present	<u> </u>	Y / N	<u> </u>	If yes then what species: <u> </u>			
Site Indicators	<u> </u>	Y / N	<u> </u>	If yes then what species: <u> </u>			

ENVIRONMENTAL OBSERVATIONS								
Water Course	<u> </u>	Bog	<u> </u>	Pond	<u> </u>	Stream	<u> </u>	
Drainage:	Poor	<u> </u>	Moderate	<u>X</u>	Good	<u>X</u>	Excellent	<u> </u>
Snag Trees:	Adequate	<u>X</u>	Inadequate	<u> </u>				
Coarse Woody Material:	Adequate	<u> </u>	Inadequate	<u> </u>				
Dens	<u> </u>	Nests (Raptors, songbirds, etc.)	<u> </u>					
Wildlife Observed	<u> </u>							
Comments	<u>15 to 20 cm BF snags as well as some windfall, some cutting on adjacent land to south</u>							

STAND PRESCRIPTION							
No Treatment	<u>X</u>	Regeneration Cut	<u> </u>	Crop Tree Release	<u> </u>	Block Cut	<u> </u>
Shelterwood Cut	<u> </u>	Selection Cut	<u> </u>	Patch Cut	<u> </u>	Strip Cut	<u> </u>
Commercial Thinning	<u> </u>	Afforestation	<u> </u>	Site Preparation	<u> </u>		
Pre-commercial Thinning	<u> </u>	Reforestation	<u> </u>	Riparian Zone Mgmt	<u> </u>		
Pln. Maint.	<u>Y / N</u>	Stems/Ha	<u> </u>				
Comments:	<u>no treatment, leave this area at this time as a buffer to the woodlot from adjacent land to south, noted blazed line (location?), poor vigor RM, nice BS (open-grown and moderately limby tops), RM has slow growth, BF dead or declining, most of area appears relatively well-drained although pockets of poor drainage</u>						

STAND TALLY SHEET

SAMPLE TREE INFORMATION				
TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	PO	35	20	14
2	RM	35	18	13
3	PO	37	23	15
4				
5				
6				

STAND INFORMATION								
Stand Basal Area	SW	<u> </u> M ² /Ha	SWSL	<u> </u> M ² /Ha	HW	<u> </u> M ² /Ha	HWSL	<u> </u> M ² /Ha
Species and (%)	PO60	%	RM20	%	BF10	%	WB	
Even-aged	<u> </u> X	Uneven-aged	<u> </u>				Biomass	<u> </u> X
Slope	<u> </u>	%	Aspect	<u> </u> L				
Stand Origin:	Old Field	<u> </u>	Partial Cut	<u> </u>	Burn	<u> </u>	Unploughed	<u> </u> X
	Windfall	<u> </u>	Non Forest	<u> </u>			Ploughed	<u> </u>
	Clear Cut	<u> </u> X	Unknown	<u> </u>				
Stand Maturity Class:	Regeneration	<u> </u>	Immature	<u> </u> X	Mature	<u> </u>	Over-mature	<u> </u>
Stand Stocking:	Understocked	<u> </u>	Fully Stocked	<u> </u>	Overstocked	<u> </u> X	Patchy	<u> </u>
Density:	SW	<u> </u> 5,000	HW	<u> </u> 2,500				
Advanced Regeneration:	Understocked	<u> </u> X	Fully Stocked	<u> </u>	Overstocked	<u> </u>	Patchy	<u> </u>
Regeneration:	1. Spp.	<u> </u>	Height	<u> </u>	2. Spp.	<u> </u>	Height	<u> </u>
	3. Spp.	<u> </u>	Height	<u> </u>	4. Spp.	<u> </u>	Height	<u> </u>

GROUND OBSERVATIONS

Ground Vegetation Species Present: (snow cover)

Ground Hemlock Y / N X

Invasive Species Present _____ Y / N _____ If yes then what species:

ENVIRONMENTAL OBSERVATIONS

ENVIRONMENTAL OBSERVATIONS

Water Course Bug Pond Stream Seeps Beaver Present Y/N

Drainage: POOR Moderate Good X Excellent Erosion Control Required Y/N

Snags: Adequate _____ Inadequate

Coarse Woody Material: Adequate Inadequate

Dens _____ Nests (Raptors, songbirds, etc.) _____

Wildlife Observed

Comments a few scattered residual left in original harvest

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: no treatment at this time, leave to develop further, PO overstory, coppice codominant RM, BF

throughout the understory with little or no potential, residual fragment of the old stand with WB by

the stream to the east,

beaver dams in stream zone

STAND TALLY SHEET

CRUISER L. Stevenson STAND # 471098 PLANTATION # 52415
 PROPERTY # AREA 2.47 ha Date 15 / 1 / 2015
 D M Y

SAMPLE TREE INFORMATION				
TREE #	SPP.	AGE	D.B.H.	HEIGHT
1				
2				
3				
4				
5				
6				

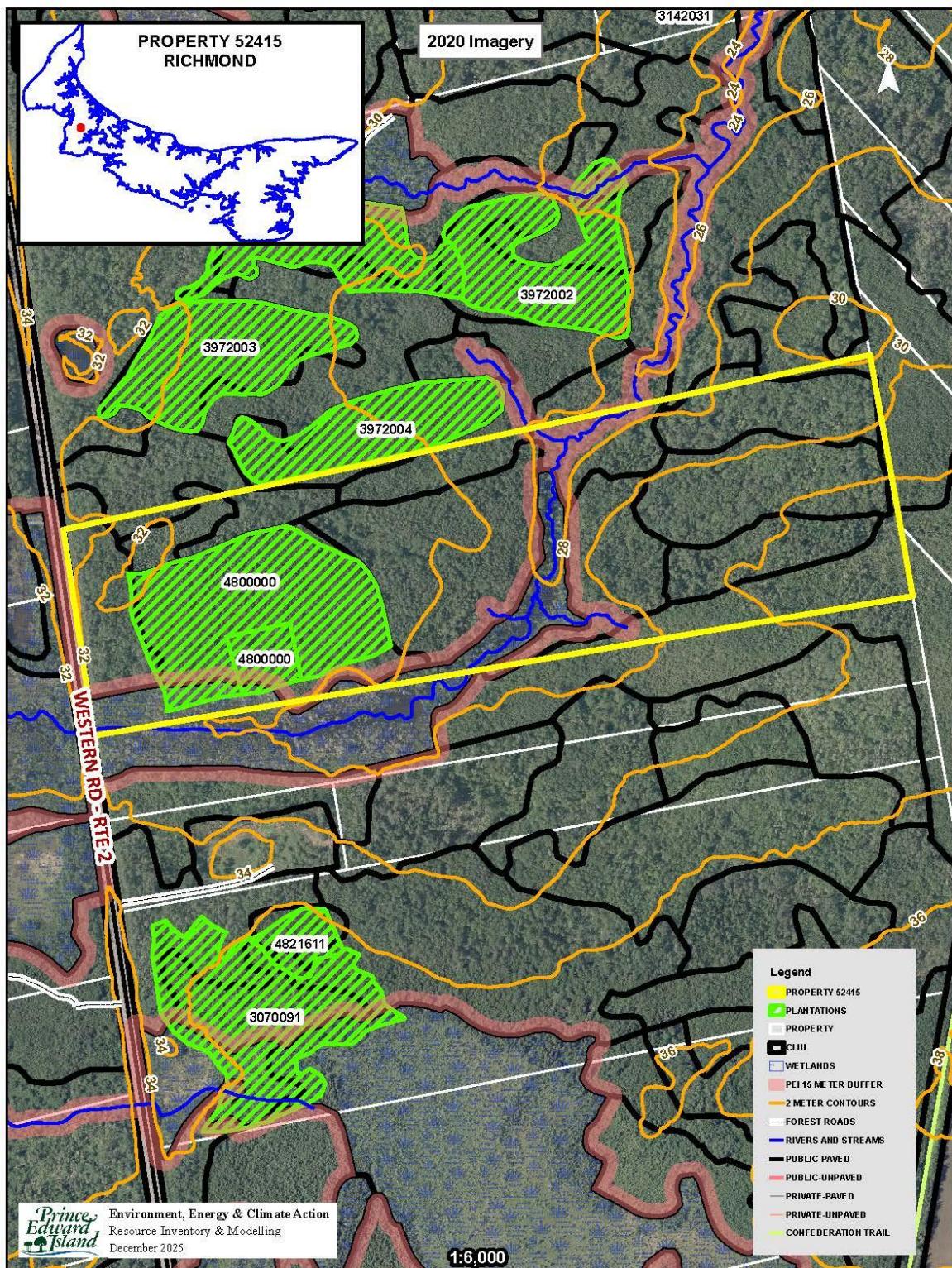
STAND INFORMATION							
Stand Basal Area	SW	<u> </u> M ² /Ha	SWSL	<u> </u> M ² /Ha	HW	<u> </u> M ² /Ha	HWSL <u> </u> M ² /Ha
Species and (%)	<u> </u> %	<u> </u> %	<u> </u> %	<u> </u> %			
Even-aged		Uneven-aged					Biomass <u> </u>
Slope <u> </u> %	Aspect L <u> </u>						
Stand Origin:	Old Field <u> </u>	Partial Cut <u> </u>	Burn <u> </u>		Unploughed X <u> </u>		
	Windfall <u> </u>	Non Forest <u> </u>			Ploughed <u> </u>		
	Clear Cut X <u> </u>	Unknown <u> </u>					
Stand Maturity Class:	Regeneration X <u> </u>	Immature <u> </u>	Mature <u> </u>	Over-mature <u> </u>			
Stand Stocking:	Understocked X <u> </u>	Fully Stocked <u> </u>	Overstocked <u> </u>	Patchy <u> </u>			
Density:	SW <u> </u>	HW <u> </u>					
Advanced Regeneration:	Understocked X <u> </u>	Fully Stocked <u> </u>	Overstocked <u> </u>	Patchy <u> </u>			
Regeneration:	1. Spp. BS <u> </u>	Height <u> </u> 1	2. Spp. <u> </u>	Height <u> </u>			
	3. Spp. <u> </u>	Height <u> </u>	4. Spp. <u> </u>	Height <u> </u>			

GROUND OBSERVATIONS							
Ground Vegetation Species Present:	kalmia, blueberry, sphagnum (snow cover)						
Ground Hemlock	<u> </u> Y / N X <u> </u>						
Invasive Species Present	<u> </u> Y / N <u> </u>	If yes then what species:					
Site Indicators	<u> </u> Y / N <u> </u>	If yes then what species:					

ENVIRONMENTAL OBSERVATIONS							
Water Course	<u> </u>	Bog <u> </u>	Pond <u> </u>	Stream <u> </u>	Seeps <u> </u>	Beaver Present <u> </u>	Y / N
Drainage:	Poor X <u> </u>	Moderate <u> </u> X <u> </u>	Good <u> </u>	Excellent <u> </u>		Erosion Control Required <u> </u>	Y / N
Snag Trees:	Adequate <u> </u>	Inadequate X <u> </u>					
Coarse Woody Material:	Adequate <u> </u>	Inadequate X <u> </u>					
Dens	<u> </u>	Nests (Raptors, songbirds, etc.) <u> </u>					
Wildlife Observed							
Comments	edge affect adjacent to mature and overmature stand						

STAND PRESCRIPTION							
No Treatment	<u> </u> X <u> </u>	Regeneration Cut	<u> </u>	Crop Tree Release	<u> </u>	Block Cut <u> </u>	
Shelterwood Cut	<u> </u>	Selection Cut	<u> </u>	Patch Cut	<u> </u>	Strip Cut <u> </u>	
Commercial Thinning	<u> </u>	Afforestation	<u> </u>	Site Preparation	<u> </u>		
Pre-commercial Thinning	<u> </u>	Reforestation	<u> </u>	Riparian Zone Mgmt	<u> </u>		
Pln. Maint.	<u> </u> Y / N <u> </u>	Stems/Ha <u> </u>					
Comments:	no treatment at this time, leave this clearcut section to develop naturally, this harvest is an extension of a harvest on adjacent land, the boundary location needs to be confirmed (blazes were noted), the area contained BS and BF with some maple, natural regeneration should sufficiently stock the site						

Appendix G. Plantation Map with Contour Lines



Appendix H. Work Completed

Property ID	Activity Number	Treatment Code	Amount Completed (Ha)	Treatment Date	District Code	Treatment Description
52415	0	88D	2.2	12/21/1992	W	Class 4 : Manual : 15001-20000/Ha <6 Metres