

Date: February 3rd, 2023

P.E.I.

Public Forests



Woodlot Management Plan

Property Number: 38158

Location: Bloomfield Station

Table of Contents

Goals and Management Objectives	2
Property Overview	3
Location.....	3
Past Information	3
Property Information	3
Wetland and Watercourses	4
Property Access.....	4
Property Boundaries	4
Fire Protection	4
Planting and Silviculture	5
Proposed Treatments	5
Table 1. Proposed treatment summary	6
Appendices.....	9
Appendix A. Map of Property with Locator Map	10
Appendix B. 1935 Aerial Photography	11
Appendix C. 1968 Aerial Photography	12
Appendix D. 2010 Corporate Land Use Inventory	13
Appendix E. Forest Inventory Codes	14
Appendix F. Stand Tally Sheets from on the Ground Assessment.....	15
Appendix G. Plantation Map with Contour Lines.....	32
Appendix H. Work Completed	33

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 # 38158 is located on the Jerry Road, Route #148, near the community of Bloomfield, P.E.I., (Appendix A). The total area of this property is 23 hectares (57.6 acres) and the midpoint of the property is Latitude N 46.773134 decimal degrees, Longitude W -64.236257 decimal degrees.

Past Information

Local records and previous aerial photography show that this property was agriculture land that was abandoned and has since been planted to forest cover or has reverted to forest cover. To better illustrate this the 1935 and 1968 photography can be seen in Appendix B and Appendix C. Appendix A shows the 2020 forest cover. No aerial photography was available at the time of this plan to reflect damage from hurricane Fiona in September 2022.

Property Information

The information in Appendix D has been taken from the 2010 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 unnamed tributary that runs diagonally through this property and flows in a south westerly direction. This tributary is the headwater to a larger drainage system that flows into Mill River. The stream runs through a wetland. This observation can be viewed in Appendix A. A 15 metre buffer zone is to be maintained around this wetland. There is also a potential unmapped wetland draining into this stream between plantation # 3925041 and Plantation # 3925042. A third wetland can be found in the SE corner of the property within stand # 0101136.

Property Access

Access to this property is obtained from the Jerry Road. An in-property road is not required. Existing roads for the property can be seen on Appendix A

Property Boundaries

This property is bounded on the west by the Jerry Road, north by private land, east by private land, and south by the Confederation Trail.

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 Forestry Division and our local community fire brigades. In the Western District, there is a 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 may be a suitable site to setup a portable fire pump system depending on seasonal water flow.

Planting and Silviculture

There are ten plantations on the property. Some have been harvested recently and are scheduled for replanting and others have some blowdown damage from hurricane Fiona and are scheduled for harvest, while others are at immature stage that may require plantation maintenance or a pre-commercial thin. 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 H.

Proposed Treatments

The 2006 Forest Policy “Moving to Restore a Balance in Island Forests” lays out the framework for Public Land Forest management. The Eco-Manual provides details for prescribed treatments. All work completed on this property must comply with that manual. Although all stands were assessed, only specific stands were prescribed treatments to accomplish goal(s) within the next 10 years. Table 1 provides a summary of these proposed treatments. Proposed treatments may be updated in 5 years, when the 10-year period expires, or due to unforeseen events. This table will be updated as required when additional treatments are prescribed. For a better understanding of the treatments prescribed, a more detailed explanation is available in the ECOSYSTEM-BASED FOREST MANAGEMENT STANDARDS MANUAL (“Eco Manual”)

www.princeedwardisland.ca/sites/default/files/publications/2018_eco_manual_technical_version_.pdf

[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

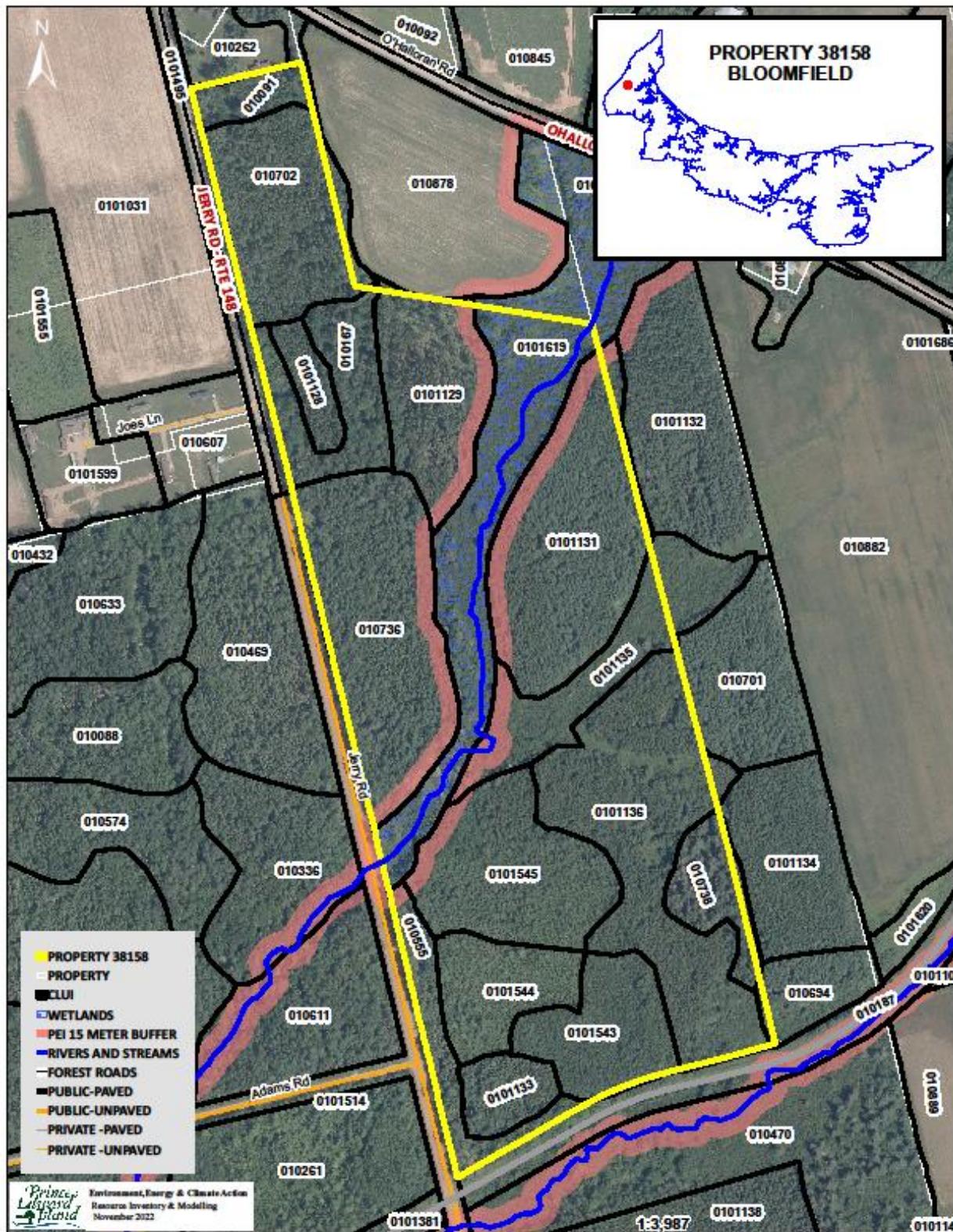
Stand Number and Plantation Number	Treatment Type	Treatment Year	Amount Proposed	2018 Eco-Manual Reference	Comments	Goals
101135	Access for wood hauling	2023	-	-	This stand is a potential wetland. Wood from PN# 3925041 will need to be hauled through this stand (alder swale). Discuss with Environment as a permit will be required.	Wood haul access.
101128 PN# 3821631	Manual Site Preparation	2023	0.4	14	Remove vegetation down to mineral soil.	Create microsites for planting.
101128 PN# 3821631	Reforestation	2023	0.4	16	Block harvested in 2022. RM left as retention. Could plant: WS, BS, LA, WP, or WA.	Regenerate a biodiverse forest stand.
101131 PN# 3925041	Block Harvest	2023	3.0	30	Excessive Blowdown in Larch stand from hurricane Fiona. Will leave any RM, WB and WP. Harvest in the next two years before wood decays too much.	Salvage blowdown wood.
101136 PN# 3925042	Manual Maintenance	2023	0.8	17	South side of stand and some other pockets have WP in the understory mixed with hardwoods.	To release WP and improve growth.
101136 PN# 3925042	Crop Tree Release	2023	2.2	23	Release the WP in the understory of the RP plantation.	Get more light to crowns of WP to improve growth and health.
101545 PN# 3030101	Manual Maintenance	2023	2.0	17	Pockets where WS understory needs to be released from GB overstory.	Improve growth of crop trees.

10702 PN# 3925101	Manual Site Preparation	2023	1.3	14	Remove vegetation down to mineral soil.	Create microsites for planting.
10702 PN# 3925101	Reforestation	2023	1.3	16	Block harvested in 2022. RM and some WP left for retention. Could plant BS, LA, WP or WA.	Regenerate a biodiverse forest stand.
10736 PN# 3901571	Block Harvest	2023	1.1	30	Blowdown in north section of stand after hurricane Fiona.	Salvage blowdown wood in north section of stand.
101129 PN# 3821631	Block Harvest	2023	1.6	30	Severe blowdown in BS stand from hurricane Fiona.	Salvage blowdown wood.
101129 PN# 3821631	Manual Site Preparation	2024	1.6	14	Remove vegetation down to mineral soil.	Create microsites for planting.
101129 PN# 3821631	Reforestation	2024	1.6	16	Plant with species suitable to the site. Could plant BS with wetter spots planted with CE.	Regenerate a biodiverse forest stand.
101131 PN# 3925041	Manual Site Preparation	2024	3.0	14	Remove vegetation down to mineral soil.	Create microsites for planting.
101131 PN# 3925041	Reforestation	2024	3.0	16	Planted to species suited to the site.	Regenerate a biodiverse forest stand.
10736 PN# 3901571	Manual Site Preparation	2024	1.1	14	Remove vegetation down to mineral soil.	Create microsites for planting.
10736 PN# 3901571	Reforestation	2024	1.1	16	Wet site, could plant BS with CE on the wetter areas.	Regenerate a biodiverse forest stand.
10738	Block Harvest	2025	0.7	30	Harvest mature/over-mature timber before significant stand decline. Retain any hardwoods.	Salvage over-mature softwood.
101128 PN# 3821631	Manual Maintenance	2025	1.8	17	Eliminate undesirable competing vegetation. Stand was GB heavy prior to harvest.	Improve growth of crop trees.

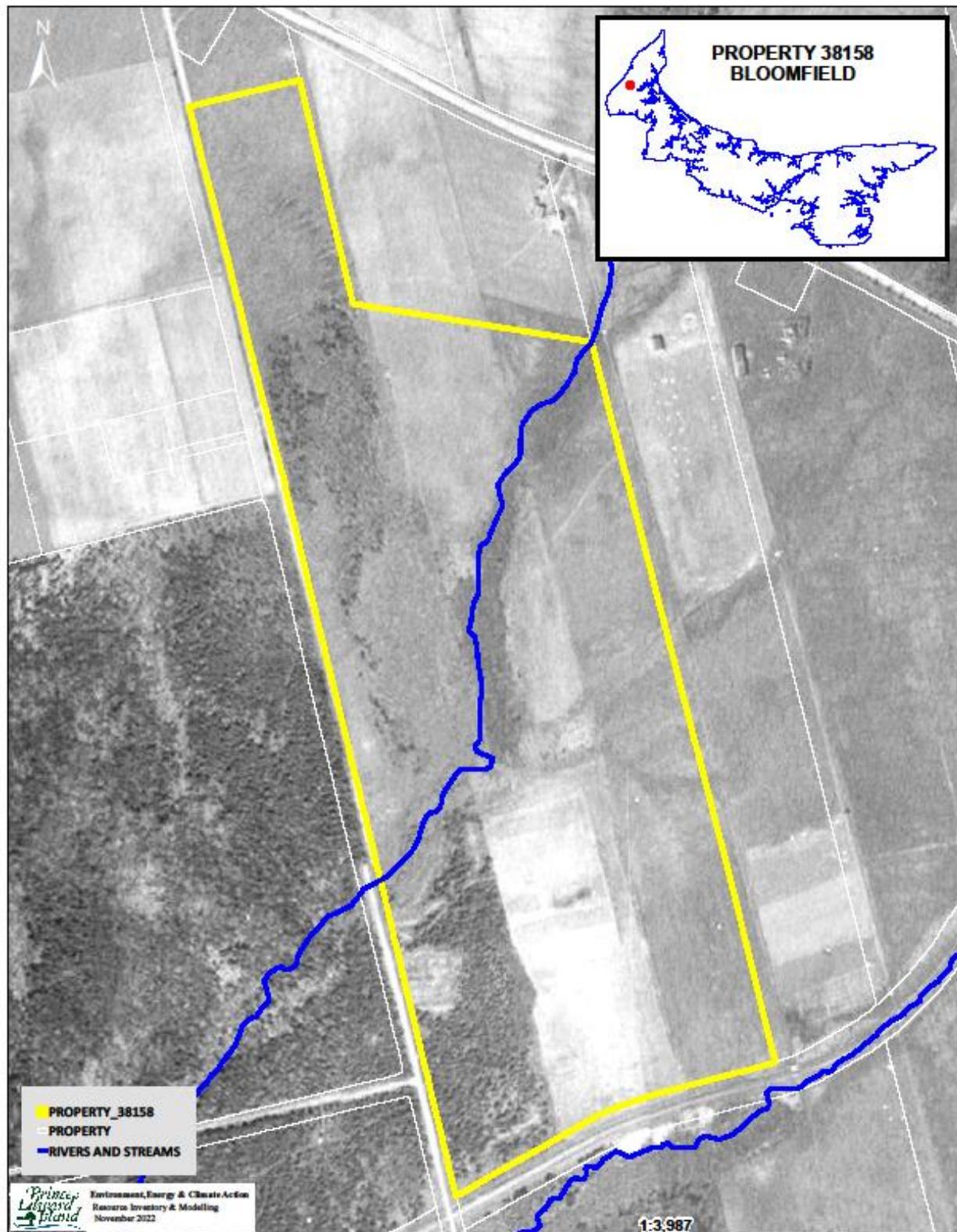
101544 PN# 3020981	Pre-Commercial Thin	2025	1.0	22	Has had two plantation maintenances in the past. Site has a lot of natural ingress. Softwoods are dense requiring spacing.	Improve Tree Growth.
10702 PN# 3925101	Manual Maintenance	2025	1.3	17	Eliminate undesirable competing vegetation. Stand was Grey Birch heavy prior to harvest.	Improve growth of crop trees.
101129 PN# 3821631	Manual Maintenance	2026	1.6	14	Eliminate undesirable competing vegetation. Stand was Grey Birch heavy prior to harvest.	Improve growth of crop trees.
10738	Manual Site Preparation	2026	0.7	14	Remove vegetation down to mineral soil.	Create microsites for planting.
10738	Reforestation	2026	0.7	16	Not much existing regeneration. Plant block with Acadian species suitable for the site. Could plant a mix of WS, WP, RO, SM or YB.	Regenerate a biodiverse forest stand.
101131 PN# 3925041	Manual Maintenance	2026	3.0	17	Eliminate undesirable competing vegetation.	Improve growth of crop trees.
10736 PN# 3901571	Manual Maintenance	2026	1.1	17	Eliminate undesirable competing vegetation.	Improve growth of crop trees.
101133 PN# 3821631	Block Harvest	2027	0.5	30	Black Spruce stand with some blowdown.	Salvage timber and reset the stand for planting.
10738	Manual Maintenance	2028	0.7	17	Eliminate undesirable competing vegetation.	Improve growth of crop trees.
101133 PN# 3821631	Manual Site Preparation	2028	0.5	14	Remove vegetation down to mineral soil.	Create microsites for planting.
101133 PN# 3821631	Reforestation	2028	0.5	16	Plant with species suitable for the site. Could plant BS.	Regenerate a biodiverse forest stand.
101133 PN# 3821631	Manual Maintenance	2030	0.5	17	Eliminate undesirable competing vegetation.	Improve growth of crop trees.

Appendices

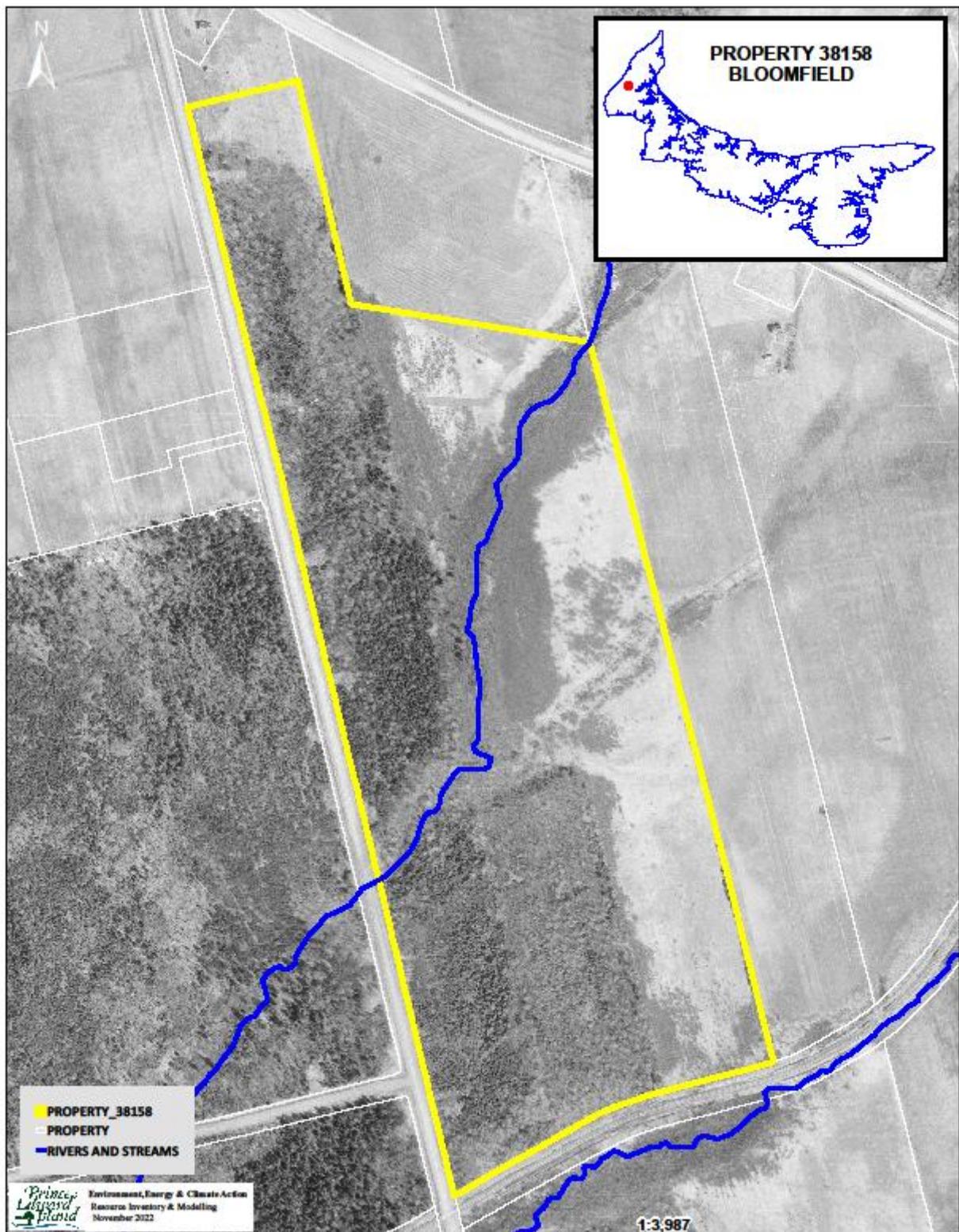
Appendix A. Map of Property with Locator Map



Appendix B. 1935 Aerial Photography



Appendix C. 1968 Aerial Photography



Appendix D. 2010 Corporate Land Use Inventory

FIELDID	COVER1	PER1	COVER2	PER2	COVER3	PER3	COVER4	PER4	COVER5	PER5	HEIGHT
010702	BS	4	WB	3	LA	2	WP	1		0	12.0
0101129	BS	6	AL	3	WB	1		0		0	12.0
0101128	BS	8	WB	2		0		0		0	11.0
0101131	LA	7	WP	2	WB	1		0		0	10.0
010736	BS	4	WP	3	LA	2	WB	1		0	10.0
0101134	RP	8	WP	2		0		0		0	7.0
010701	LA	10		0		0		0		0	6.0
010738	WS	7	RM	2	WB	1		0		0	16.0
010694	LA	10		0		0		0		0	8.0
0101133	BS	9	WB	1		0		0		0	10.0
0101544	NS	10		0		0		0		0	1.0
0101545	WS	10		0		0		0		0	2.0
010555	WS	3	PO	3	BS	2	RM	2		0	15.0
010091	AL	6	LA	2	RM	1	PO	1		0	4.0
010167	RM	4	PO	2	WS	2	WB	1	YB	1	19.0
0101135	AL	6	WS	2	LA	1	RM	1		0	5.0
0101136	WB	4	LA	2	RM	2	AL	1	WS	1	7.0
0101543	WB	6	PO	3	BF	1		0		0	6.0

Appendix E. Forest Inventory Codes

EXPLANATION OF FOREST CODES; SPECIES

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

<u>PERCENT</u>		<u>CROWN CLOSURE</u>		<u>ORIGIN AND HISTORY</u>	
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 %	BR	Burn
5	50 - 59 %	F	41 % - 50 %	WF	Wind Fall
6	60 - 69 %	G	31 % - 40 %	PC	Partial Cut
7	70 - 79 %	H	21 % - 30 %	CC	Clear Cut
8	80 - 89 %	I	11 % - 20 %	TH	Thinning
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

BO	Bog	AL	Alders
CL	Clear Land	FL	Flowerage
SO	Swamps – Open	AG	Agricultural Land
EP	Excavation Pit	SD	Sand Dune
PL	Power Line	UR	Urban
C	Cemetery	WW	Water

FOREST GROUND CONDITION

SW	Wet – Swampy
ST	Steep
SY	Sandy

Appendix F. Stand Tally Sheets from on the Ground Assessment

STAND TALLY SHEET												
CRUISER	J.LeClair		STAND #	101128		PLANTATION #	3821631					
PROPERTY #	38158		AREA	0.4 ha	Date	2 /	12 /	2022				
						D	M	Y				
SAMPLE TREE INFORMATION												
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	RM	48	19	16		4						
2						5						
3						6						
STAND INFORMATION												
Stand Basal Area	SW	M ² /Ha	SWSL	M ² /Ha	HW	M ² /Ha	HWSL	M ² /Ha				
Species and (%)	RM %	GB %	%	%	*site clearcut 2022							
Even-aged	X	Uneven-aged										
Slope	level	% Aspect										
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed					
	Windfall		Non Forest				Ploughed	X				
	Clear Cut	X	Unknown									
Stand Maturity Class:	Regeneration	X	Immature	X	Mature		Over-mature					
Stand Stocking:	Understocked	X	Fully Stocked		Overstocked		Patchy					
Density:	SW	HW										
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy					
Regeneration:	1. Spp.	GB	Height 0.5 m		2. Spp.		Height					
	3. Spp.		Height		4. Spp.		Height					
GROUND OBSERVATIONS												
Ground Vegetation Species Present:	bunchberry, strawberry, bracken fern, red-osier dogwood, raspberry											
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		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.)			Y							
Wildlife Observed	None observed.											
Comments												
STAND PRESCRIPTION												
No Treatment				Regeneration Cut		Crop Tree Release			Block Cut			
Shelterwood Cut				Selection Cut		Patch Cut			Strip Cut			
Commercial Thinning				Afforestation		Site Preparation	X					
Pre-commercial Thinning				Reforestation	X	Riparian Zone Mgmt						
Pln. Maint.	Y	Y / N		Stems/Ha								
Comments:	Recently block harvested with immature red maple left standing as single tree retention. This stand was GB and BS dominant previously. GB stump sprouts visible. Species suitable for the site to be planted could be WS, BS, LA, WP, and WA. Plantation maintenance required as grey birch suckers on site already.											

STAND TALLY SHEET

CRUISER J.LeClair STAND # 10091 PLANTATION #
 PROPERTY # 38158 AREA 0.4 ha Date 2 / 12 / 2022
 D M Y

SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	RM	40	18	14	4				
2	GB	40	12	14	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 (%)	GB3	%	PO2	%	RM2	%	AL2	%
Even-aged	X		Uneven-aged					
Slope	level	%	Aspect					
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed	
	Windfall		Non Forest				Ploughed	
	Clear Cut		Unknown					
Stand Maturity Class:	Regeneration		Immature	X	Mature	X	Over-mature	
Stand Stocking:	Understocked	X	Fully Stocked		Overstocked		Patchy	
Density:	SW	100	HW	1000				
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked			
Regeneration:	1. Spp. BS		Height 1 m		2. Spp. PO		Height 1 m	
	3. Spp. GB		Height 1 m		4. Spp.		Height	

GROUND OBSERVATIONS

Ground Vegetation Species Present:	Red-osier dogwood, wild strawberry, bracken fern, raspberry							
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	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: No 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	Stems/Ha					
Comments:	This is a scraggly hardwood stand that serves as a buffer to the adjacent home. No treatment is recommended. Mature GB and PO.						

STAND TALLY SHEET												
CRUISER	J.LeClair		STAND #	10702		PLANTATION #	3925101					
Property #	38158		AREA	2	ha	Date	2 /	12 /	2022			
						D	M	Y				
SAMPLE TREE INFORMATION												
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	GB	30	14	12		4						
2	WP			19	10	5						
3	data from retention left in stand					6						
STAND INFORMATION												
Stand Basal Area	SW	M ² /Ha	SWSL	M ² /Ha	HW	14 M ² /Ha	HWSL	M ² /Ha				
Species and (%)	%	%	%	%		GB5BS1PO1RM1WP	2%	(uncut areas)				
Even-aged	X	Uneven-aged										
Slope	level	% Aspect										
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed					
	Windfall		Non Forest				Ploughed	X				
	Clear Cut	X	Unknown									
Stand Maturity Class:	Regeneration		Immature		Mature		Over-mature					
Stand Stocking:	Understocked	X	Fully Stocked		Overstocked		Patchy					
Density:	SW	HW		*on uncut areas 50 sw 3400 HW								
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy					
Regeneration:	1. Spp. BS		Height 0.3m	2. Spp. GB		Height 0.3 m						
	3. Spp. RM		Height 0.1 m	4. Spp.		Height						
GROUND OBSERVATIONS												
Ground Vegetation Species Present:	golden rod, wild raisin, bunch berry, sarsaparilla, blueberry, aster, fern, raspberry, strawberry, red-osier dogwood, sensitive fern											
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		Inadequate	X								
Coarse Woody Material:	Adequate		Inadequate	X								
Dens	N	Nests (Raptors, songbirds, etc.)			N							
Wildlife Observed	None observed.											
Comments												
STAND PRESCRIPTION												
No Treatment				Regeneration Cut		Crop Tree Release		Block Cut				
Shelterwood Cut				Selection Cut		Patch Cut		Strip Cut				
Commercial Thinning				Afforestation		Site Preparation	X					
Pre-commercial Thinning				Reforestation	X	Riparian Zone Mgmt						
Pln. Maint.	Y	Y / N		Stems/Ha								
Comments:	Most of the site was block harvested in 2022 with RM and WP retention left standing for biodiversity. A 0.3 ha cover patch is remaining in the stand (retention). BS, LA, WP, and WA could be suitable options to plant. There are expected to be high vegetation competition issues with raspberry and GB on the site, so it will require plantation maintenance.											

STAND TALLY SHEET

CRUISER	J. LeClair	STAND #	10167	PLANTATION #		
PROPERTY #	38158	AREA	1.1 ha	Date	2 / 12 / 2022	
				D	M	Y

SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	WS	65	27	19	4				
2	RM	70+	35	20	5				
3					6				

STAND INFORMATION

Stand Basal Area	SW	6 M ² /Ha	SWSL	M ² /Ha	HW	16 M ² /Ha	HWSL	M ² /Ha				
Species and (%)	RM3	%	PO2	%	GB1	%	WS 2	%	WB1	%	BF1	%
Even-aged	X	Uneven-aged										
Slope	level	%	Aspect									
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed					
	Windfall		Non Forest				Ploughed	X				
	Clear Cut		Unknown									
Stand Maturity Class:	Regeneration		Immature		Mature	X	Over-mature					
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy					
Density:	SW	600	HW	1200								
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked							
Regeneration:	1. Spp.	BF	Height	0.5 m	2. Spp.		Height					
	3. Spp.	RM	Height	1 m	4. Spp.		Height					

GROUND OBSERVATIONS

Ground Vegetation Species Present:	bracken fern, yellow clintonia, raspberry, bunch berry, sarsaparilla, golden rod, strawberry, wild raisin	
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	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	snowshoe hare droppings seen.											
Comments	Some wet depressions observed.											

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	Y / N N	Stems/Ha				
Comments:	There is some blown down of spruce/fir in the stand. The poplar and birch are overmature and in decline. The standing dead poplar trees make good wildlife trees. No treatment is required to preserve older red maple trees.						

STAND TALLY SHEET

CRUISER	J.LeClair	STAND #	101129	PLANTATION #	3821631
PROPERTY #	38158	AREA	1.6 ha	Date	2 / 12 / 2022

SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	WB	39	17	14	4				
2	BS	40	18	16	5				
3					6				

STAND INFORMATION

Stand Basal Area	SW	M ² /Ha	SWSL	M ² /Ha	HW	M ² /Ha	HWSL	M ² /Ha
Species and (%)	GB4	%	BS4	%	PO1	%	WB1	%
Even-aged	X	Uneven-aged						
Slope level	%	Aspect						
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed	
	Windfall		Non Forest				Ploughed	X
	Clear Cut	X	Unknown					
Stand Maturity Class:	Regeneration		Immature	X	Mature		Over-mature	
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy	
Density:	SW 2,200	HW 2,000						
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy	
Regeneration:	1. Spp. RM		Height 1 m		2. Spp. GB		Height 1.5 m	
	3. Spp. BF		Height 0.4 m		4. Spp. PO		Height 1.5 m	

GROUND OBSERVATIONS

Ground Vegetation Species Present:	golden rod, raspberry, bracken and sensitive ferns, bunch berry, serviceberry								
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	Y	Bog	N	Pond	N	Stream	Y	Seeps	N	Beaver Present	N	Y / N
Drainage:	Poor	X	Moderate		Good		Excellent			Erosion Control Required	N	Y / N
Snag Trees:	Adequate	X	Inadequate									
Coarse Woody Material:	Adequate	X	Inadequate									
Dens	N	Nests (Raptors, songbirds, etc.)			N							

Wildlife Observed

None observed.

Comments

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.	Y	Y / N	Stems/Ha				

Comments: There is severe blowdown from hurricane Fiona. Wood will need to be salvaged as soon as possible before the wood degrades. BS could be planted on most of the site. Wetter areas could be planted with CE for biodiversity. For all treatments retain 15 m riparian buffer along wetland/stream.

STAND TALLY SHEET

CRUISER	J.LeClair	STAND #	10736	PLANTATION #	3901571
PROPERTY #	38158	AREA	3.0 ha	Date	2 / 12 / 2022

SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	LA	32	24	15	4				
2	BS	32	22	15	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	%	BS4	%	WP1	%	GB1	%
Even-aged	X	Uneven-aged						
Slope	level	%	Aspect					
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed	
	Windfall		Non Forest				Ploughed	X
	Clear Cut	X	Unknown					
Stand Maturity Class:	Regeneration		Immature	X	Mature		Over-mature	
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy	
Density:	SW	2600	HW	200				
Advanced Regeneration:	Understocked		Fully Stocked		Overstocked		Patchy	
Regeneration:	1. Spp. PO		Height 2 m		2. Spp. BF		Height 5 m	
	3. Spp. BS		Height 2 m		4. Spp.		Height	

GROUND OBSERVATIONS

Ground Vegetation Species Present:	golden rod, raspberry, strawberry, fireweed, ferns, bunch berry, false lilly of the valley, serviceberry			
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	Y	Bog	N	Pond	N	Stream	Y	Seeps	N	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.)	Y								
Wildlife 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.	Y	Y / N		Stems/Ha							
Comments:	There is lots of blowdown on the North side of stand to salvage by block harvest. This site could be planted with BS with CE on the wetter areas for biodiversity. The South side of the stand is still standing and can be left to grow. Retain a 15 m buffer along the wetland/stream.										

STAND TALLY SHEET

CRUISER	J. LeClair	STAND #	101131	PLANTATION #	3925041
PROPERTY #	38158	AREA	3.0 ha	Date	7 / 12 / 2022
				D	M Y

SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	LA	30	20	14	4				
2	WP		8	6	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 (%)	LA6	%	GB2	%	WP1	%	WB1	%
Even-aged	X	Uneven-aged						
Slope	level	%	Aspect					
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed	
	Windfall		Non Forest				Ploughed	X
	Clear Cut	X	Unknown					
Stand Maturity Class:	Regeneration		Immature	X	Mature		Over-mature	
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy	
Density:	SW	1800	HW	1,200				
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy	
Regeneration:	1. Spp. GB		Height 1 m		2. Spp. PC		Height 1.5 m	
	3. Spp.		Height		4. Spp.		Height	

GROUND OBSERVATIONS

Ground Vegetation Species Present:	dewberry, raspberry, red-osier dogwood	
Ground Hemlock	Y / N N	
Invasive Species Present	Y / N N	
Site Indicators	Y / N N	

ENVIRONMENTAL OBSERVATIONS

Water Course	Y	Bog	N	Pond	N	Stream	Y	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	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.	Y	Y / N		Stems/Ha							
Comments:	Retain a 15 m buffer along wetland to the north of the stand and the potential unmapped wetland to the south. There is lots of blowdown from hurricane Fiona, therefore a block harvest is required to salvage the LA. Retain any WP and WB for biodiversity. Wood extraction may require an environment permit to go through the potential unmapped wetland to the south.										

STAND TALLY SHEET

CRUISER	J. LeClair	STAND #	101135	PLANTATION #	
PROPERTY #	38158	AREA	1.7 ha	Date	7 / 12 / 2022

SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	AI		4.5	5	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 (%)	AL10	%	%	%	%			
Even-aged	X	Uneven-aged						
Slope	level	%	Aspect					
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed	
	Windfall		Non Forest				Ploughed	
	Clear Cut		Unknown					
Stand Maturity Class:	Regeneration		Immature	X	Mature		Over-mature	
Stand Stocking:	Understocked	X	Fully Stocked		Overstocked		Patchy	
Density:	SW		HW					
Advanced Regeneration:	Understocked		Fully Stocked		Overstocked		Patchy	
Regeneration:	1. Spp. AI		Height 1 m		2. Spp.		Height	
	3. Spp.		Height		4. Spp.		Height	

GROUND OBSERVATIONS

Ground Vegetation Species Present:	sensitive fern, sedges, grass, red-osier dogwood		
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	Y	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	None observed.											
Comments	This is a possible water course. It is vegetated and has no defined banks. Soils are wet.											

STAND PRESCRIPTION

No Treatment		X	Regeneration Cut		Crop Tree Release		Block Cut
Shelterwood Cut			Selection Cut		Patch Cut		Strip Cut
Commercial Thinning			Afforestation		Site Preparation		
Pre-commercial Thinning			Reforestation		Riparian Zone Mgmt		
Pln. Maint.	Y / N		Stems/Ha				
Comments:	This is an alder stand on a poorly drained site that may potentially be a wetland. No work is recommended. Speak with Environment regarding hauling of wood from PN 3925041 through this stand. To cross would require frozen ground conditions or possibly a corduroy.						

STAND TALLY SHEET												
CRUISER	J. LeClair		STAND #	101136		PLANTATION #	3925042					
PROPERTY #	38158		AREA	3.2 ha		Date	7 /	12 /	2022			
						D	M	Y				
SAMPLE TREE INFORMATION												
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT		
1	RP	30	23	14		4						
2	WP	30	16	11		5						
3						6						
STAND INFORMATION												
Stand Basal Area	SW	M ² /Ha	WSL	M ² /Ha	HW	M ² /Ha	HWSL	M ² /Ha				
Species and (%)	RP3 %	GB3 %	WP2 %	WB1 %		RM/WS 1						
Even-aged	X	Uneven-aged										
Slope level	% Aspect											
Stand Origin:	Old Field	X	Partial Cut	Burn		Unploughed						
	Windfall		Non Forest			Ploughed	X					
	Clear Cut		Unknown									
Stand Maturity Class:	Regeneration		Immature	X	Mature		Over-mature					
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy					
Density:	SW 800	HW 1,400										
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:	No significant ground veg in RP/WP plantation dominant areas.											
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	Y	Bog	N	Pond	N	Stream	N	Seeps	Y	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	None observed.											
Comments	The stand borders an unmapped potential wetland to the North with small extension into the stand.											
STAND PRESCRIPTION												
No Treatment				Regeneration Cut		Crop Tree Release	X		Block Cut			
Shelterwood Cut				Selection Cut		Patch Cut			Strip Cut			
Commercial Thinning				Afforestation		Site Preparation						
Pre-commercial Thinning				Reforestation		Riparian Zone Mgmt						
Pln. Maint.	Y	Y / N		Stems/Ha								
Comments:	Conduct a plantation maintenance in areas of the stand where regenerating WP is being suppressed by hardwoods (south of stand and western side). Conduct a Crop Tree Release of WP in areas of the stand where RP is suppressing it. Areas void of WP are to be left as is. Retain a 15 m buffer on all wetlands (to the north and south of the stand).											

STAND TALLY SHEET

CRUISER	J. LeClair	STAND #	101545	PLANTATION #	3030101
PROPERTY #	38158	AREA	2 ha	Date	7 / 12 / 2022

SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	WS	19	7	6	4				
2					5				
3					6				

STAND INFORMATION

Stand Basal Area	SW	M ² /Ha	WSL	M ² /Ha	HW	M ² /Ha	HWSL	M ² /Ha
Species and (%)	WS3	%	GB2	%	RM2	%	BF2	%
Even-aged	X	Uneven-aged						
Slope	level	%	Aspect					
Stand Origin:	Old Field	X	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	2000	HW	10,000				
Advanced Regeneration:	Understocked		Fully Stocked	X	Overstocked		Patchy	
Regeneration:	1. Spp. GB		Height 1-5m		2. Spp. PC		Height 4-5 m	
	3. Spp. WS		Height 1-5 m		4. Spp. BF		Height 0.5 m	

GROUND OBSERVATIONS

Ground Vegetation Species Present:	blackberry, raspberry, bracken fern, strawberry, red-osier dogwood, bunchberry
Ground Hemlock	Y / N N
Invasive Species Present	Y / N N
Site Indicators	Y / N N

ENVIRONMENTAL OBSERVATIONS

Water Course	Y	Bog	N	Pond	N	Stream	Y	Seeps	N	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		Inadequate	X								
Dens	N	Nests (Raptors, songbirds, etc.)	N									
Wildlife Observed	None observed.											
Comments	PC has black knot.											

STAND PRESCRIPTION

No Treatment				Regeneration Cut			Crop Tree Release			Block Cut	
Shelterwood Cut				Selection Cut			Patch Cut			Strip Cut	
Commercial Thinning				Afforestation			Site Preparation				
Pre-commercial Thinning				Reforestation			Riparian Zone Mgmt				
Pln. Maint.	Y	Y / N		Stems/Ha							
Comments:	There are pockets where plantation maintenance should be done to release WS from the GB overstory. Retain a 15 m buffer along the watercourse to the north of the stand.										

STAND TALLY SHEET

CRUISER	J. LeClair	STAND #	101544	PLANTATION #	3020981
PROPERTY #	38158	AREA	1.0 ha	Date	7 / 12 / 2022

SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	BS	19	6	8	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 (%)	BS4 %	NS2 %	LA2 %	GB 1 %	PC PO WP 1			
Even-aged	X	Uneven-aged						
Slope level	%	Aspect						
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed	
	Windfall		Non Forest				Ploughed	
	Clear Cut	X	Unknown					
Stand Maturity Class:	Regeneration	X	Immature		Mature		Over-mature	
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked	X	Patchy	
Density:	SW 2000	HW 9,000						
Advanced Regeneration:	Understocked		Fully Stocked	X	Overstocked		Patchy	
Regeneration:	1. Spp. BS		Height 5 m		2. Spp. GB		Height 2 m	
	3. Spp. RM		Height 5 m		4. Spp.		Height	

GROUND OBSERVATIONS

Ground Vegetation Species Present:	Sheep laurel, bunchberry, haircap moss, ferns, wild raisin		
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		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: Northern flicker holes from feeding on hardwood tree and on NS were observed.

Comments:

STAND PRESCRIPTION

No Treatment			Regeneration Cut		Crop Tree Release		Block Cut
Shelterwood Cut			Selection Cut		Patch Cut		Strip Cut
Commercial Thinning			Afforestation		Site Preparation		
Pre-commercial Thinning	X	Reforestation			Riparian Zone Mgmt		
Pln. Maint.	Y / N	Stems/Ha					
Comments:	The site was originally a NS plantation, however it is now dominated by naturally regenerated BS, LA and other species. Manual maintenance was done in the past. The stand may need a pre-commercial thin in a couple of years as the softwood is quite dense in areas.						

STAND TALLY SHEET

CRUISER	J.LeClair	STAND #	101543	PLANTATION #	302161
PROPERTY #	38158	AREA	1.2 ha	Date	7 / 12 / 2022

SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	RM	20	11	10	4				
2	PO	20	14	10	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 (%)	PO4 %	RM2 %	GB2 %	WB2 %				
Even-aged	X	Uneven-aged						
Slope	level	%	Aspect					
Stand Origin:	Old Field	X	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	HW	10,000					
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy	
Regeneration:	1. Spp. BF		Height 0.5 m		2. Spp.		Height	
	3. Spp.		Height		4. Spp.		Height	

GROUND OBSERVATIONS

Ground Vegetation Species Present:	wild raisin, bunchberry, blackberry, raspberry
Ground Hemlock	Y / N N
Invasive Species Present	Y / N N
Site Indicators	Y / N N

ENVIRONMENTAL OBSERVATIONS

Water Course	N	Bog	N	Pond	N	Stream	N	Seeps	N	Beaver Present	N	Y / N
Drainage:	Poor	X	Moderate		Good		Excellent			Erosion Control Required	N	Y / N
Snag Trees:	Adequate		Inadequate	X								
Coarse Woody Material:	Adequate		Inadequate	X								
Dens	N	Nests (Raptors, songbirds, etc.)	N									
Wildlife Observed	None Observed.											
Comments												

STAND PRESCRIPTION

No Treatment	X	Regeneration Cut		Crop Tree Release		Block Cut
Shelterwood Cut		Selection Cut		Patch Cut		Strip Cut
Commercial Thinning		Afforestation		Site Preparation		
Pre-commercial Thinning		Reforestation		Riparian Zone Mgmt		
Pln. Maint.	Y / N	Stems/Ha				
Comments:	This is an unsuccessful plantation that is now a hardwood stand. No treatment is recommended.					

STAND TALLY SHEET

CRUISER J. LeClair STAND # 10738 PLANTATION #
 PROPERTY # 38158 AREA 0.6 ha Date 7 / 12 / 2022
 D M Y

SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	WS	68	31	18	4				
2					5				
3					6				

STAND INFORMATION

Stand Basal Area	SW	M ² /Ha	SWSL	M ² /Ha	HW	4	M ² /Ha	HWSL	M ² /Ha
Species and (%)	WS6	%	RM2	%	GB1	%	PO1	%	YB/SM %
Even-aged	X	Uneven-aged							
Slope	level	% Aspect							
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed		
	Windfall		Non Forest				Ploughed	X	
	Clear Cut		Unknown						
Stand Maturity Class:	Regeneration		Immature		Mature	X	Over-mature		
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy		
Density:	SW	1600	HW	400					
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked				
Regeneration:	1. Spp. RM		Height 0-2 m		2. Spp. Mount. As		Height 2 m		
	3. Spp. SM		Height 5 m		4. Spp.		Height		

GROUND OBSERVATIONS

Ground Vegetation Species Present:	mosses, wild raisin, old man's beard, mountain ash	
	Thick needle litter with not a lot of ground vegetation.	
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		Good	X	Excellent					Erosion Control Required	N	Y / N
Snag Trees:	Adequate		Inadequate	X								
Coarse Woody Material:	Adequate		Inadequate	X								
Dens	N	Nests (Raptors, songbirds, etc.)	N									
Wildlife Observed	None observed.											
Comments												

STAND PRESCRIPTION

No Treatment		Regeneration Cut		Crop Tree Release		Block Cut	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.	Y	Y / N	N	Stems/Ha			
Comments:	The stand is mostly mature old field WS. Of note was a regenerating SM tree and YB tree. The stand is healthy for now, but should be reassessed in 5 years for block harvest. SM and YB should be retained for biodiversity. The stand could be planted with WS mixed with WP, RO, SM, and YB.						

STAND TALLY SHEET

CRUISER J.LeClair STAND # 10555 PLANTATION #
 PROPERTY # 38158 AREA 0.7 ha Date 2 / 12 / 2022
 D M Y

SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	BF	64	21	16	4				
2	PO	64	31	18	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 (%)	RM2	%	PO2	%	GB1	%	WS 3	%	WB1	%	BF1	%
Even-aged	X		Uneven-aged									
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	X	Over-mature					
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy					
Density:	SW	600	HW	1200								
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked							
Regeneration:	1. Spp.	BF	Height	0.5 m	2. Spp.	WS	Height	0.5 m				
	3. Spp.	RM	Height	1 m	4. Spp.		Height					

GROUND OBSERVATIONS

Ground Vegetation Species Present:	bracken fern, yellow clintonia, raspberry, bunch berry, sarsaparilla, golden rod, strawberry	
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	Good	X	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	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 N	Stems/Ha					
Comments:	Retain this stand as a buffer to the road and Confederation Trail. There is some blowdown of PO and RM along the Confederation Trail. Of note were a couple of regenerating CE on the western stand edge across from Adams Road.						

STAND TALLY SHEET

CRUISER	J. LeClair	STAND #	101136	PLANTATION #	
PROPERTY #	38158	AREA	0.3 ha	Date	22 / 12 / 2022
				D	M Y

SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	AL	25	3.5	4	4				
2					5				
3					6				

STAND INFORMATION

Stand Basal Area	SW	M ² /Ha	SWSL	M ² /Ha	HW	M ² /Ha	HWSL	M ² /Ha
Species and (%)	AL7	%	RM1	%	LA1	%	WB/GB	1 %
Even-aged	X	Uneven-aged						
Slope	level	%	Aspect					
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed	
	Windfall		Non Forest				Ploughed	X
	Clear Cut		Unknown					
Stand Maturity Class:	Regeneration		Immature	X	Mature		Over-mature	
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy	
Density:	SW	50	HW	300				
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy	
Regeneration:	1. Spp. AI		Height	4 m	2. Spp. GB		Height	4 m
	3. Spp.		Height		4. Spp.		Height	

GROUND OBSERVATIONS

Ground Vegetation Species Present:	willows, red osier dogwood, bull rushes		
Ground Hemlock	Y / N N		
Invasive Species Present	Y / N N		
Site Indicators	Y Y / N		

ENVIRONMENTAL OBSERVATIONS

Water Course	Y	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	Wetter soils are found by the Confederation Trail, particularly the SE corner (alder swale).											

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 N	Stems/Ha				
Comments:	This is an unmapped wetland.					

STAND TALLY SHEET

CRUISER J. LeClair STAND # 101133 PLANTATION # 3821631
 PROPERTY # 38158 AREA 0.5 ha Date 7 / 12 / 2022
 D M Y

SAMPLE TREE INFORMATION

TREE #	SPP.	AGE	D.B.H.	HEIGHT	TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	BS	50	19	15	4				
2					5				
3					6				

STAND INFORMATION

Stand Basal Area	SW	M ² /Ha	SWSL	M ² /Ha	HW	M ² /Ha	HWSL	M ² /Ha
Species and (%)	BS8 %	LA1 %	RM1 %	%	%	%	%	%
Even-aged	X	Uneven-aged						
Slope	%	Aspect						
Stand Origin:	Old Field	Partial Cut	Burn		Unploughed	X		
	Windfall	Non Forest			Ploughed			
	Clear Cut	X	Unknown					
Stand Maturity Class:	Regeneration		Immature	X	Mature		Over-mature	
Stand Stocking:	Understocked		Fully Stocked	X	Overstocked		Patchy	
Density:	SW 2000	HW						
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked			
Regeneration:	1. Spp.	Height	2. Spp.	Height				
	3. Spp.	Height	4. Spp.	Height				

GROUND OBSERVATIONS

Ground Vegetation Species Present:	Mosses and bunchberry but overall no significant regeneration or ground vegetation cover.		
Ground Hemlock	Y / N	N	
Invasive Species Present	Y / N	If yes then what species:	
Site Indicators	Y / N	N	If yes then what species:

ENVIRONMENTAL OBSERVATIONS

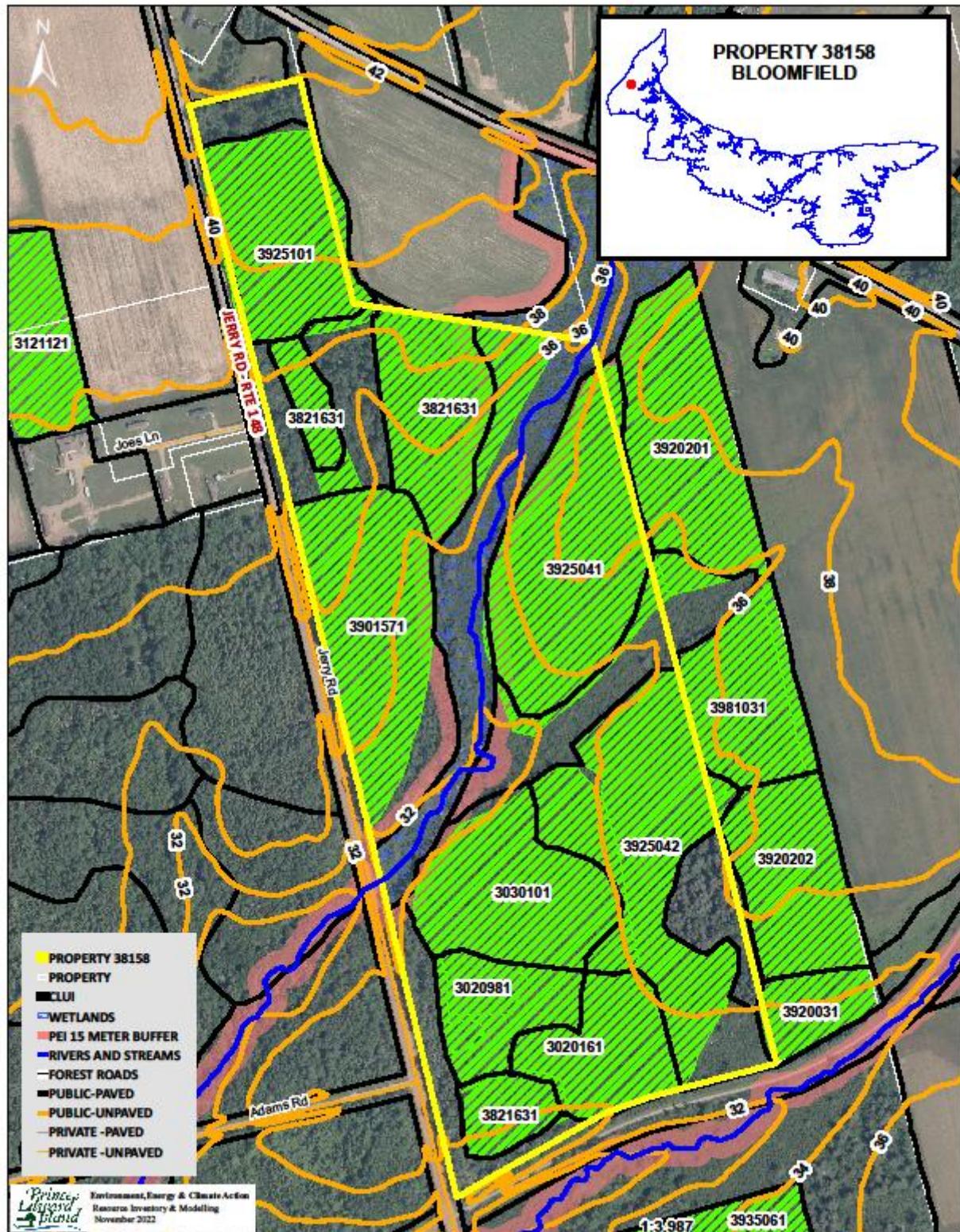
Water Course	N	Bog	N	Pond	N	Stream	N	Seeps	N	Beaver Present	Y / N
Drainage:	Poor	Good	X	Excellent				Erosion Control Required		Y / N	
Snag Trees:	Adequate	X	Inadequate								
Coarse Woody Material:	Adequate	X	Inadequate								
Dens	N	Nests (Raptors, songbirds, etc.)									
Wildlife Observed	Red squirrel 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.	Y Y / N	Stems/Ha					
Comments:	There is some blowdown from hurricane Fiona in the stand. Most trees are still standing but if more come down in the next few years it may be prudent to block harvest and reset the stand. Plant BS.						

STAND TALLY SHEET										
CRUISER	J. LeClair		STAND #	101619		PLANTATION #				
PROPERTY #	38158		AREA	2.6 ha		Date	7 /	12 /	2022	
				D	M				Y	
SAMPLE TREE INFORMATION										
TREE #	SPP.	AGE	D.B.H.	HEIGHT		TREE #	SPP.	AGE	D.B.H.	HEIGHT
1	AL	25	3	3		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 (%)	AL5	%	RM2	%	GB2	%	LA 1	%		
Even-aged	X	Uneven-aged								
Slope level	%	Aspect								
Stand Origin:	Old Field	X	Partial Cut		Burn		Unploughed			
	Windfall		Non Forest				Ploughed	X		
	Clear Cut		Unknown							
Stand Maturity Class:	Regeneration		Immature	X	Mature		Over-mature			
Stand Stocking:	Understocked	X	Fully Stocked		Overstocked		Patchy			
Density:	SW		HW							
Advanced Regeneration:	Understocked	X	Fully Stocked		Overstocked		Patchy			
Regeneration:	1. Spp.		Height		2. Spp.		Height			
	3. Spp.		Height		4. Spp.		Height			
GROUND OBSERVATIONS										
Ground Vegetation Species Present:	willows, red osier dogwood, grasses									
Ground Hemlock	Y / N	N								
Invasive Species Present	Y / N	N	If yes then what species:							
Site Indicators	Y	Y / N		If yes then what species:						
ENVIRONMENTAL OBSERVATIONS										
Water Course	Y	Bog	Pond	Stream	Y	Seeps		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	N	Stems/Ha							
Comments:	This is a mapped water course and wetland complex.									

Appendix G. Plantation Map with Contour Lines



Appendix H. Work Completed

Activity Number	Treatment Code	Amount Completed (HA)	Treatment Date	Treatment Description
3925041	23B	2.58	9/3/1991	Rhome Disc Double Pass - Per Ha
3925051	23B	2.39	9/5/1991	Rhome Disc Double Pass - Per Ha
3925101	25B	1.57	9/6/1991	Chemical Broadcast
3911711	29	1.57	2/8/1991	Raking Crawler Tractor-Root Rake:per Ha
3020161	29	2.21	1/10/2002	Raking Crawler Tractor-Root Rake:per Ha
3030101	29	2.67	1/23/2003	Raking Crawler Tractor-Root Rake:per Ha
3040161	30B	3510	7/29/2004	Manual Site Preparation per Site (Hawk)
0	50WF	1.23	7/29/2004	FILL PLANT AREA - WESTERN
3901571	51W	4930	6/1/1990	BLACK SPRUCE - WESTERN
3925101	51W	2608	6/26/1992	BLACK SPRUCE - WESTERN
3925042	53W	9.6	1/12/2001	RED PINE - WESTERN
3925042	53W	4368	6/15/1992	RED PINE - WESTERN
3030101	55W	7074	7/9/2003	WHITE SPRUCE - WESTERN
3925042	56W	1465	6/15/1992	WHITE PINE - WESTERN
3901571	56W	470	6/1/1990	WHITE PINE - WESTERN
3040161	56W	3510	7/29/2004	WHITE PINE - WESTERN
3925041	56W	1581	6/15/1992	WHITE PINE - WESTERN
3925101	56W	945	6/26/1992	WHITE PINE - WESTERN
3925041	59W	4742	6/15/1992	EASTERN LARCH - WESTERN
3020161	67W	4950	7/9/2002	NORWAY SPRUCE - WESTERN
3020981	67W	990	12/9/2002	NORWAY SPRUCE - WESTERN
0	82B	2.43	10/27/1992	Herbicide:Broadcast : 1st Treatment
3925042	88A	2.57	2/3/2000	Class I : Manual : 0 -5000/Ha <6 Metres
3925101	88A	1.57	1/12/2001	Class I : Manual : 0 -5000/Ha <6 Metres
	88M	2.7	3/17/2017	Class 6 : Manual : 25001+/Ha <6 Metres
3925042	89C	2.57	2/3/2000	Pruning Up to 9 Feet
3020161	92	2.21	1/7/2002	Block Harvest
3030101	92	2.67	12/9/2002	Block Harvest
3220517	92	1.30	9/15/2022	Block Harvest