Date: April 9th, 2025

P.E.I.
Public Forests



Woodlot Management Plan

Property Number: 24208

Location: Harmony

Table of Contents

| Goals and Management Objectives | 1 |
|--|----|
| Property Overview | 2 |
| Location | 2 |
| Past Information | 2 |
| Property Information | 2 |
| Wetland and Watercourses | 3 |
| Property Access | 3 |
| Property Boundaries | 3 |
| Fire Protection | 3 |
| Planting and Silviculture | 4 |
| Proposed Treatments | 4 |
| Table 1. Proposed Treatment Summary | 5 |
| Appendices | 7 |
| Appendix A. Map of Property with Locator Map | 8 |
| Appendix B. 1935 Aerial Photography | 9 |
| Appendix C. 1968 Aerial Photography | 10 |
| Appendix D. 2020 Corporate Land Use Inventory | 11 |
| Appendix E. Forest Inventory Codes | 12 |
| Appendix F. Stand Tally Sheets from on the Ground Assessment | 13 |
| Appendix G. Plantation Map with Contour Lines | 19 |
| Appendix H. Work Completed | 20 |

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 # 24208 is located on the Western Road, Route #2, in the community of Harmony, P.E.I., (Appendix A). The total area of this property is 20.2 hectares (50 acres) and the midpoint of the property is Latitude N 46.537321 decimal degrees, Longitude W -64.002493 decimal degrees.

Past Information

Local records and previous aerial photography show that much of property was utilized for agriculture in the 20th century. The South portion was all actively farmed with fields extending to the East. The portion of old wooded land to the Northwest that was never cleared shows evidence of patch and clearcutting prior to 1968. The wetland to the Northwest has a dug drainage ditch that appears in a straight line through the wet section. Some remnant buildings from the old farm can be seen in the clearing at the Western end of the woodlot road/ driveway to the old farm site. To better illustrate this 1935 and 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 a stream located on this property. This stream is one of the "headwaters" of the Sheep River. This steam flows through a large wetland. Approximately 5.10 Ha of this wetland is found on PP # 24208. The water flows from east to west, eventually ending up in the Sheep River. This observation can be viewed in Appendix A.

Property Access

Access to this property is obtained through the use of a 400m class 1 woods road that accesses the central portion of the property on the same route as the old driveway to the historical farm location. This road also provided some access for forestry treatments on the adjacent property to the South. The road has a short distance of pavement at the Eastern end where it approaches the Western Road (Hwy 2). Ongoing road maintenance will be required to keep the road in a useable condition. This will include keeping the right-of-way clear of any brush or trees, repairing rutting on the road, repairing any wet areas that restrict access, and any other maintenance required to keep these roads usable. The existing road on the property can be seen on Appendix A

Property Boundaries

This property is bounded on the north and west by private land. The eastern boundary fronts on the Western Road. The property to the South is also Provincial Forest land.

Fire Protection

This property is located within the jurisdiction of the Tyne Valley Fire Department. The amount of personnel and equipment used to fight any forest fires will depend greatly upon the size and severity of the fire. Protection of our woodland from forest fire is the responsibility of the 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 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 along the north boundary of the property may be a suitable site to setup a portable fire pump system.

Planting and Silviculture

There are 3 plantations on the property. It is recommended that any trees planted on the property be assessed at regular intervals. These assessments will determine if the planted trees require manual maintenance or fill planting as specified in the ECOSYSTEM-BASED FOREST MANAGEMENT STANDARDS MANUAL ("Eco Manual"). A list of all silviculture treatments completed on the property from 1991 to present is shown in Appendix 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")

<u>final.pdf</u> . Any additional information may be obtained by contacting a Provincial Forest representative at the District Forestry Office in Wellington.

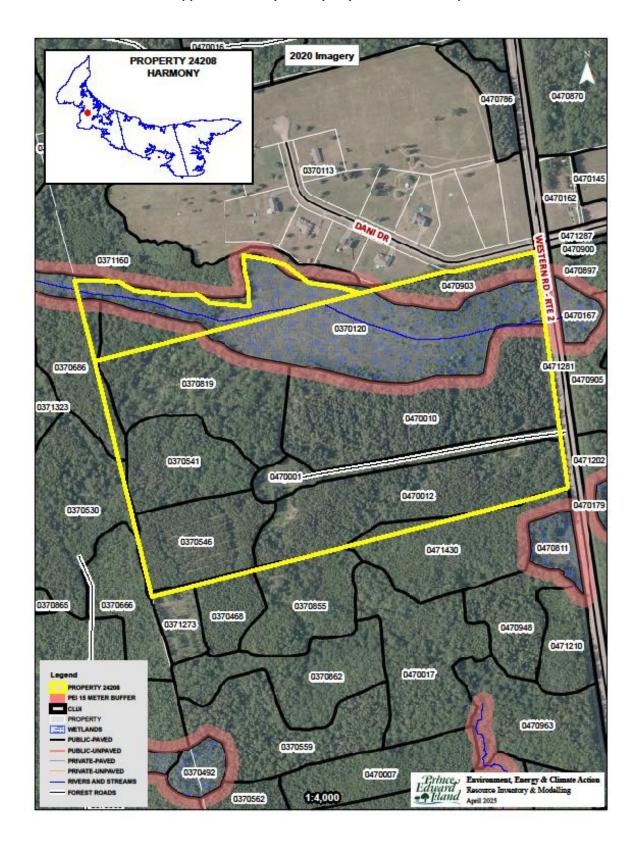
Table 1. Proposed Treatment Summary.

| Stand Number and Plantation Number | Treatment Type | Treatment Year | Amount Proposed (ha) | 2018 Eco- Manual Reference | Comments | Goals |
|--|--|-------------------|----------------------------|----------------------------------|--|--|
| All | Road Maintenance | 2025 | all | Pg. 7, 9- 12 | Maintain woodlot road | Ensure access to woodlot for silvicultural and chainsaw training activities (this woodlot is often used for chainsaw courses in the Western District). |
| 0470010, 0470012, PN 3760014 | Modified Patch Harvest | 2025 | > 0.3 (yearly) | Pg.30 | Patch harvest can be used for chainsaw training and to regenerate portions of the stand. Target areas with blowdown or other signs of stand decline first. | Salvage wood and train chainsaw users. |
| 0470010, 0470012, PN 3760014 | Manual Site Preparation & Reforestation | 2025 | > 0.3 (yearly) | Pg. 14, 16-17 | Create microsites for planting and enrichment plant with tree species suitable for the site in areas not sufficiently stocked. Could plant WS, WP, LA, RM, SM or YB. | Regenerate a biodiverse forest stand. |
| 0370546, PN 3760029 | Commercial Thinning | 2025 | 1.83 | Pg. 26 | Remove merchantable stems to improve spacing for crop trees. Can use existing rows from 1st thinning and take out more stems between rows. | Improve growth and health of crop trees. |
| 0370546, PN 3760029 | White Pine Blister Rust Pruning | 2025 | 1.83 | Pg. 20 | Although mostly RP, some WP in stand could be pruned to increase airflow in the stand to reduce the spread of white pine blister rust. | Prevent spread of white pine blister rust and produce knot free trees |

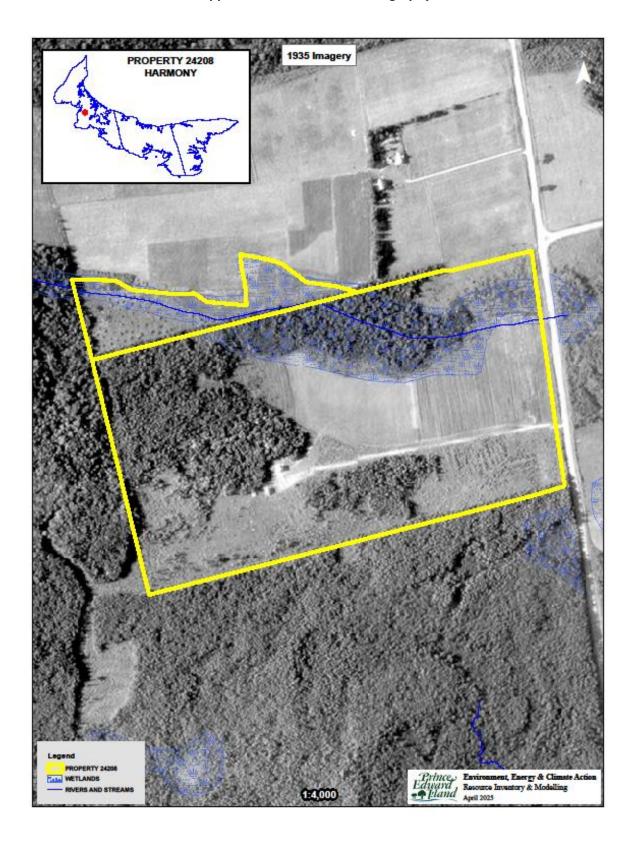
| 0470903, PN 3811501 | Fire Smart | 2025 | 30 m radius from structures | - | Reduce fuels around structures using Fire Smart Canada Guidelines | Reduce risk of wildfire to any nearby homes (subdivision to the north) |
|------------------------------------|--|------|--------------------------------------|--------------------|--|---|
| 0470010, 0470012, PN 3760014 | Manual Maintenance | 2028 | > 0.3 (yearly) | Pg. 17 | Eliminate undesirable competing vegetation. | Improve growth of crop trees (both planted and naturally regenerating). |
| 0470010, 0470012, PN 3760014 | Block Harvest | 2032 | 7.86 | Pg.30 | Monitor for signs of stand decline (blowdown, bark beetle). If even-aged stand looks close to collapse schedule for block harvest. | Salvage wood. |
| 0470010, 0470012, PN 3760014 | Manual Site Preparation & Reforestation | 2032 | 7.86 | Pg. 14 & Pg. 16 | Create microsites for planting and plant with tree species suitable for the site. Could plant WS, WP, LA, RM, SM or YB. | Regenerate a biodiverse forest stand. |
| 0470010, 0470012, PN 3760014 | Manual Maintenance | 2035 | 7.86 | Pg. 17 | Eliminate undesirable competing vegetation. | Improve growth of crop trees (both planted and naturally regenerating). |

Appendices

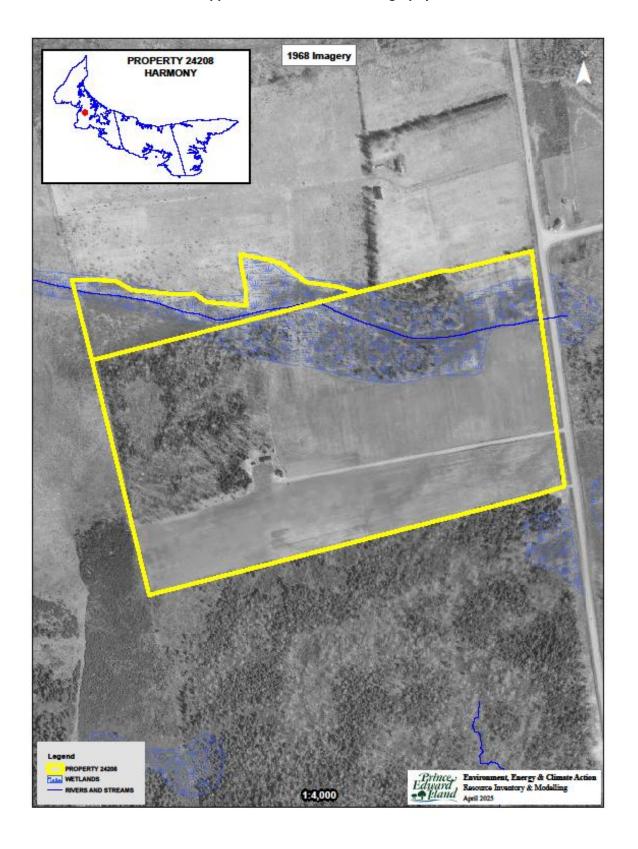
Appendix A. Map of Property with Locator Map



Appendix B. 1935 Aerial Photography



Appendix C. 1968 Aerial Photography



Appendix D. 2020 Corporate Land Use Inventory

| FIELDID | COVER1 | PER1 | COVER2 | PER2 | COVER3 | PER3 | COVER4 | PER4 | COVER5 | PER5 | HEIGHT | CROWN | HECTARES | WOODSTOCK |
|---------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|-------|----------|-----------|
| 0370113 | GRS | 5 | BAR | 2 | PAV | 1 | TRE | 1 | BLD | 1 | 0 | 0 | 0.03 | |
| 0370120 | | 0 | | 0 | | 0 | | 0 | | 0 | 0 | 0 | 5.28 | |
| 0370468 | WS | 9 | PO | 1 | | 0 | | 0 | | 0 | 9 | 80 | 0.03 | WSPR |
| 0370530 | GB | 3 | WS | 2 | RM | 2 | PO | 2 | BF | 1 | 12 | 75 | 0.05 | IHMX |
| 0370541 | LA | 3 | RM | 3 | PO | 2 | BF | 1 | WB | 1 | 13 | 75 | 1.77 | IHSW |
| 0370546 | RP | 5 | GB | 3 | PO | 1 | RM | 1 | | 0 | 11 | 80 | 1.83 | SWIH |
| 0370686 | GB | 5 | RM | 2 | PO | 2 | BF | 1 | | 0 | 12 | 85 | 0.29 | IHMX |
| 0370819 | RM | 5 | PO | 3 | WS | 1 | WB | 1 | | 0 | 16 | 65 | 3.56 | IHMX |
| 0370855 | GB | 4 | PO | 3 | WP | 1 | BS | 1 | RM | 1 | 12 | 80 | 0.01 | IHMX |
| 0371160 | RM | 4 | WS | 2 | GB | 2 | LA | 1 | PO | 1 | 12 | 65 | 0.04 | IHMX |
| 0371273 | WP | 10 | | 0 | | 0 | | 0 | | 0 | 0 | 0 | 0.03 | WP |
| 0470001 | SHR | 5 | GRS | 3 | TRE | 2 | | 0 | | 0 | 0 | 0 | 0.93 | |
| 0470010 | WS | 7 | BF | 2 | WB | 1 | | 0 | | 0 | 12 | 80 | 4.42 | WSPR |
| 0470012 | WS | 5 | RM | 2 | GB | 1 | BF | 1 | LA | 1 | 13 | 80 | 3.44 | SPBF |
| 0470903 | WB | 4 | RM | 3 | BS | 1 | WS | 1 | PO | 1 | 14 | 75 | 0.79 | IHMX |
| 0471281 | PAV | 10 | | 0 | | 0 | | 0 | | 0 | 0 | 0 | 0.00 | |
| 0471430 | PO | 6 | GB | 3 | BF | 1 | | 0 | | 0 | 14 | 90 | 0.17 | IHMX |

Appendix E. Forest Inventory Codes

EXPLANTATION OF FORESTRY CODES:

|--|

| | - | | | | |
|----|--------------|----|-------------------|------|-------------------|
| WS | White Spruce | JL | Japanese Larch WB | Whit | te Birch |
| BF | Balsam Fir | EL | European Larch PO | Popl | ar |
| 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 |
| | | | | | |

| PERC | <u>ENT</u> | CROWN CLOSUR | E |
|-------------|------------|--------------|---|
| _ | | | |

| 0 | 1 - 9% | Α | 91% - 100% | | |
|---|-----------|---|------------|-----------------------|----------------------------|
| 1 | 10 – 19% | В | 81% - 90% | | |
| 2 | 20 – 29% | C | 71% - 80% | | |
| 3 | 30 – 39% | D | 61% - 70% | ORIGIN AND HIS | <u>TORY</u> |
| 4 | 40 – 49% | E | 51% - 60% | BR – Burn | DI – Disease-Insect |
| 5 | 50 – 59% | F | 41% - 50% | BD - Blow Down | OF - Old Field |
| 6 | 60 – 69% | G | 31% - 40% | PC - Partial Cut | PN - Plantation |
| 7 | 70 – 79% | Н | 21% - 30% | CC - Clear Cut | HR - Hedgerow |
| 8 | 80 – 89% | I | 11% - 20% | TH - Thinning | EP - Excavation Pit |
| 9 | 90 – 100% | J | 0% - 10% | | |

SAMPLE DESCRIPTIONS

FOREST STAND DESCRIPTIONS

75401 – Stand No.

SM5RM4 – Sugar Maple 50%. Red Male 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

| во | Bog | AL | Alders | | |
|----|-----------------------|----|------------------|-------------|----------------------|
| CL | Clear Land | FL | Flowerage | FORE | ST GROUND CONDITIONS |
| SO | Swamps-Open | AG | Agriculture Land | SW | Wet-Swampy |
| EP | Excavation Pit | SD | Sand Dune | ST | Steep |
| PL | Power Line | UR | Urban | SY | Sandy |
| C | Cemetery | WW | Water | | |

Appendix F. Stand Tally Sheets from on the Ground Assessment

| | | | | | | | STA | ND T | ALLY | SHEE | Т | | | | | | | | | |
|-------------------------------------|---|--|---|---|-----------------------------------|--|--|--------------|--------------------|------------------|--------------------------|--------------------------|----------------|-----------|-----------------------|------|-------|----------------|------------------|-----|
| | | | | | | | | | | | | | | | | | | | | |
| | IISER | | eClai | | | STAN | ID# | | | 0, 047 | | | PLANT | | | | | 3760 | | |
| PROPE | RTY# | 2420 | 8 Ha | rmon | / | | - | AREA | 4 | 7.86 | ha | ļ l | Date | 7 | 7 / | 4 | | 2025 | | |
| | | | | | | CAN | 4DL F | TDEE | INIT | 20144 | TIO | | | | D | Λ | / | Υ | | |
| Tuo o 4 | CDD | ۸С | | D II | 1115 | | | | | ORMA | | | ۸ | - 1 | D D I | | шп | CUT | LCE | 20/ |
| Tree# | SPP. | AGE | 10 | .B.H. | п | IGHT | | .CR% | Tre | _ | SPP | | AGE | - ' | D.B.H | ٦. | HEI | GHT | LCF | 1% |
| 1 | WS | 49 | | 28 | — | 16 | - | 33 | 4 | | | - | | _ | | | | | | |
| 2 | BF | 49 | | 21 | - | 15.5 | | 33 | 5 | | | | | - | | | | | | |
| 3 | | | _ | | 1 | | | | (|) | | | | | | | | | | |
| | | | | | | | AATS | ID IN | EOR1 | /ATIC | INI | | | | | | | | | _ |
| Stand | Basal Area | SW | | M ² /F | la | SWS | | | $1^2/Ha$ | | HW | | M ² | /Ha | HW | VSL | | M | ² /Ha | 7 |
| | | WS70 % | 6 BF | <u> </u> | | | _ | % | | | | , PO | | | | | | | | |
| Even-a | | Uneven- | _ | | Ť | | | | | | | | | | Bi | oma | ass | | | |
| Slope | | Aspect L | _ | | | | | | | | | | | | | | | | | |
| Stand | | ld Field X | | Pa | tial (| Cut | | Bur | n | | | Uni | olough | ed | | | | | | |
| | | Vindfall | | - | n For | | | Ť | | | | | Plough | | | | | | | |
| | CI | ear Cut | | | nkno | | | | | | | | | | | | | | | |
| Stand | Maturity Cl | ass: | Res | genera | tion | | | lmma | ature | | ı | ∕latu | re X | | Ov | er-n | natu | re | | |
| | Stocking: | Unde | | | | Fı | _ | tocke | | | _ | | ocked | _ | | Pato | | | | |
| Densit | | 1,400 | HW | 100 |) | | Í | | | | | | | | | | | | | |
| | ced Regene | ration: | | Under | _ stock | ed X | | Fully | Stock | ed | | Ove | rstock | ed | | Pa | atchy | , | | |
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| Ĭ | | 3. Spr | | | | Heigh | | | | | Spp. | | | | ight | | | | | |
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| Croup | d Vogotatio | n Cnosios | Droc | onti | hai | | | | | | | raicin | altori | aata l | 021/0 | 4 4 | 20110 | o d | | |
| Groun | d Vegetatio | ii species | ries | ent. | IIai | i cap i | 11033 | , reati | ilei ii | 1033, V | viiu i | aisii | , alteri | iatei | eave | u u | Jgwc | Jou | | _ |
| Groun | d Hemlock | Y / N | ı X | | | | | | | | | | | | | | | | | _ |
| | re Species P | | , <u>, , , , , , , , , , , , , , , , , , </u> | Y/N | х | If v | es th | en w | hat sr | ecies | | | | | | | | | | |
| | dicators | Y/N | Х | 1,71 | | | | | | pecies | | | | | | | | | | _ |
| Site iii | alcators | 171 | | | | | | | | | | | | | | | | | | |
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| Snag T | | lequate X | | | dequa | ate | | <u> </u> | | | | | | | | | | | | |
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| No Tre | ents Cre | Red s | quirr | | Reg Sel | gener | STAI ation n Cut | ND PF Cut | | | Cro Pa | tch C | | | X | | | | | |
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| 1 | RP | 49 | | 24. | 4 | 16 | 5 | 35 | 5 | 4 | 1 | | | | | | | | | | | |
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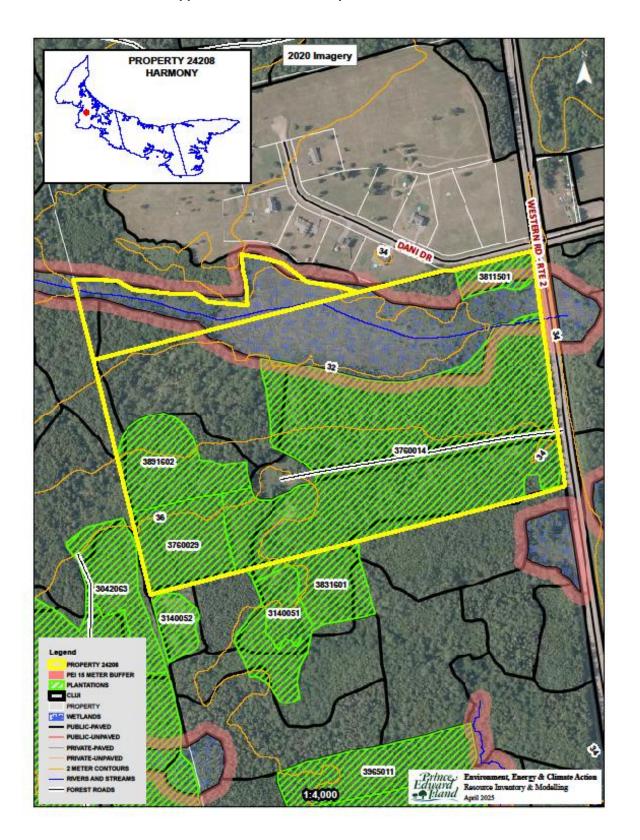
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| PROPE | RTY# | | 2420 | 3 Ha | rmc | ony | | | AF | REA | | 3.5 | 6 ha | D | ate | 7 / | | | 2025 | 5 | |
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| Tree# | SPP. | | AGE | |).B.I | | HEIG | _ | LCR | | Tre | | SPP | <u>. </u> | AGE | D.B. | Н. | HEI | GHT | | LCR% |
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| 2 | RM | | 80+ | + | 23 | | 16 | | 35 | | 5 | | | | | | | 1 | | | |
| 3 | PO | | 80+ | _ | 45 | | 18 | | 25 | • | 6 |) | | | | | | ļ | | _ | |
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| Stand I | Basal Ar | 02 | SW | | N/1 ² | ²/Ha | SV | VSL | AND | | Ha | | HW | | M ² /H | 2 H/ | NSL | | N | л ² /Н | 2 |
| | | | 030 % | DN | _ | • | | | YB10 | _ | | | | | | | | | IV | 7 7 11 | a |
| Even-a | s and (% | | Uneven- | | | 70 | WAIU | 70 | IPIO | 70 | | Strip | eu m | аріе, | Beech, \ | | | ass | | | |
| Slope | _ | _ | Aspect L | igeu | 느 | _ | | | | | | | | | | Ь | 10111 | lass | _ | | |
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| | Stocking | | Under | | | - | | Full | y Stoc | кеа | Х | _ | O۱ | ersto | скеа | | Pat | chy | | _ | |
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| | ced Rege | enera | | _ | | ierst | ocked | _ | _ | • | tock | ed X | | - | stocked | _ | _ | atchy | - | | |
| Regene | eration: | | 1. Spp | _ | | | | | 2-3 m | | | | Spp. | | | Height | _ | | _ | | |
| | | | 3. Spp | . KIV | /1 | | неі | gnt | 4-5 m | | | 4. | Spp. | RF | | Height | 1-: | 5 M | | | |
| | | | | | | | | | | _ | | | | | | | | | | | |
| | | | | | | | | GR | OUND | ОВ | SERV | /ATIO | ONS | | | | | | | ' | |
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| Ground | d Hemlo | ck X | (Y/N | Pres | | | | d ha | zelnut | , bra | acke | n fer | n, se | nsitive | e fern | | | | | | |
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Appendix G. Plantation Map with Contour Lines



Appendix H. Work Completed

| Activity Number | Treatment Code | Amount Completed | Treatment Date | Treatment Description |
|--------------------|-------------------|---------------------|-------------------|--|
| 3150514 | 110 | 1.44 | 9/28/2015 | Commercial Softwood< 5000 /Ha |
| | 16 | 0.42 | 8/31/2018 | Misc. Road Maintenance |
| | 16A | 0.4 | 7/1/2015 | Manual roadside trimming (brush saw) |
| | 16B | 0.4 | 3/31/2021 | Mechanical roadside trimming |
| 3230557 | 16B | 0.4 | 1/22/2024 | Mechanical roadside trimming |
| | 16C | 98 | 12/18/2020 | Shale fill and leveling |
| 3140502 | 16C | 120 | 6/14/2014 | Shale fill and leveling |
| 3150501 | 16C | 54 | 7/27/2015 | Shale fill and leveling |
| 3160511 | 16D | 0.4 | 10/8/2016 | Grading |
| 3891601 | 30B | 558 | 7/16/1991 | Manual Site Preparation per Site (Hawk) |
| | 400A | 6 | 6/29/2018 | Chainsaw Training |
| 3190537 | 400A | 15 | 4/13/2019 | Chainsaw Training |
| 3891601 | 56W | 1.28 | 7/16/1991 | WHITE PINE - WESTERN |
| 3891601 | 56W | 558 | 7/16/1991 | WHITE PINE - WESTERN |
| 3891601 | 82B | 1.28 | 9/28/1990 | Herbicide:Broadcast : 1st Treatment |
| 3891601 | 88B | 1.28 | 3/31/1995 | Class 2 : Manual : 5001-10000/Ha <6 Metres |
| 3891602 | 88B | 0.72 | 11/23/1990 | Class 2 : Manual : 5001-10000/Ha <6 Metres |
| 3891602 | 88D | 0.72 | 10/3/1994 | Class 4 : Manual : 15001-20000/Ha <6 Metres |
| | | | | Class 4 : Manual : 15001-20000/Ha <6 |
| 3891601 | 88D | 1.28 | 10/18/1995 | Metres |
| 3150515 | 89B | 1440 | 9/28/2015 | Pruning Up to 8 Feet |
| | 97 | 8.4 | 2/16/2021 | Wood Extraction |