

**Massachusetts Department of Conservation and Recreation  
Division of Water Supply Protection, Office of Watershed Management  
*Forest Management Project Summary***

**Project Title: Powerline Pine**

DWSP Harvest Permit Number: 3171

DWSP Proposal ID: NS-21-17

DCR Forest Cutting Plan File Number: 214-33810-22

***Site Information***

Watershed: Quabbin

Town(s): New Salem

Acres: 67

Nearest Road: Daniel Shays Highway (Route 202)

Natural Heritage Atlas overlap?: Yes

Public Drinking Water Supply Watershed?: Yes

Area of Critical Environmental Concern (ACEC)?: No

Forest Types: White Pine-Oak, White Pine, Red Pine

Soils: Chatfield-Hollis complex, Canton-Chatfield-Hollis complex, Canton fine sandy loam, and Montauk fine sandy loam. All are well drained and either rocky or very stony.

Wetland Resources: Manning Brook, a beaver pond, and bordering vegetated wetlands are adjacent to the west. There's a small unregulated wetland within the lot boundary, where no harvesting will take place.

Vernal Pools: none

***Harvest Information***

Harvest Start Date: November 18, 2022

Harvest End Date: December 12, 2022

Number of Wetland Crossings: one

Number of Stream Crossings: none

***Best Management Practices Applied***

Stream Crossings: not applicable

Filter Strips: variable width filter strip on the stream to the west of the lot (Manning Brook).

Wetland Crossings: one, to be used only when dry and frozen, and armored with corduroy.

Harvesting in Wetlands: none

***DWSP Forester supervising this harvest***

Name: Helen Johnson

Forester License number: 383

Phone number: (617) 733-2937

Email: Helen.Johnson@mass.gov

## **Narrative**

### ***General Description/Forest Composition/History***

Lot 3171 is located on western facing slopes to the east of Manning Brook in New Salem and accessed via Quabbin Gate 29. The lot covers 67 acres on both sides of a high tension power line.

North of the power line there's a 17 acre even aged white pine-oak stand with a heterogenous mix of white pine and oak with standing dead red and white oak from the 2017-2019 spongy moth outbreak. After this area was proposed for harvest and before lot preparation, this area experienced a microburst that blew down ½ acre of forest.

South of the power line there's a 27 acre white pine stand, a 20 acre white pine-oak stand, and a 3 acre red pine stand. The white pine stand covers the lower slopes to the west, near Manning Brook. Eastern white pine is the overwhelming majority of the canopy, with northern red oak a distant second. Red maple, black cherry, and eastern hop hornbeam are also present in small amounts. The white pine-oak stand is on the higher slopes near the power line and has a mix of even aged northern red, black, and white oak. The small red pine stand at the southern tip of the lot is in rapid decline due to red pine scale, with most of the canopy dominant red pine already dead prior to the harvest.

### ***Site Selection***

The primary goal of harvesting on the watershed is to create and maintain a forest that is resilient to and can quickly recover from small and large scale disturbances, including diseases, insect infestations, ice storms, microbursts, and hurricanes. The ideal way to achieve such resiliency is to foster a forest of diverse species at various stages of development (seedlings through large legacy trees) that are actively growing and regenerating. This combination of structural and species diversity builds resistance and resilience into the forest.

The site for this harvest was chosen because of its even aged structure and large, low diversity eastern white pine stand. Eastern white pine is particularly vulnerable to uprooting or snapping in strong winds, and this stand currently has little advance regeneration to secure the soil in the event of loss of a large portion of the overstory. The other stands have greater species diversity but similarly even-aged structures, and their resiliency will also benefit from fostering a new age class of tree regeneration.

### ***Silvicultural Objectives***

To help achieve the DWSP goal of promoting forest resiliency, the primary silvicultural goal for this lot is to increase the age and species diversity of the white pine, and oak hardwoods stands. Eastern white pine is dominant through much of the lot, and focusing regeneration openings in these stands will make a large contribution towards diversifying both age classes and species composition. Preferred species for retention on the edges and interior of regeneration openings are northern red oak, black cherry, red maple and large diameter, well-formed white pine. Eastern hop hornbeam stems were evaluated for health and form, and

retained if in good health or cut to encourage resprouting if not. In the eastern hardwood stands preferred trees for retention strongly favor oaks and other hardwood species. Existing skid trails were reused as much as possible. Areas that are sensitive due to steep slopes or wetness were avoided.

### ***Cultural Resources***

South of the power line this lot contains several stone walls, as well as a foundation and well in the southernmost tip of the lot. All known cultural resources have been flagged and protected. Any unmapped or currently unknown cultural resources found during the harvest will be flagged and protected, and the DCR archaeologist will be notified.

### ***Rare or Endangered Species***

NHESP has determined that certain state-listed sensitive species or habitats may exist within the harvest area. To protect them from unnecessary disturbance, detailed information regarding affected species and their locations is not included here. DWSP has coordinated with NHESP to gather recommendations to protect these species during the harvest. NHESP has reviewed the Forest Cutting Plan for this lot and determine that “based on details in the Plan and information in our database, the Division [of Fisheries and Wildlife] does not expect activities proposed in the Plan to negatively impact Estimated Habitat or result in Take (as defined in 321 CMR 10.02) of plant or animal species protected under the Massachusetts Endangered Species Act.

# Forest Cutting Plan

## Forest Cutting Plan page 1 of 7

03-10-22P03:31 RCV

# Forest Cutting Plan

and Notice of Intent under M.G.L.  
Chapter 132 – The Forest Cutting  
Practices Act, 304 CMR 11.00  
(Effective Date: 3/15/16)

### For DCR Use Only:

File Number	204-33810-22	Case No.	NA
Date Rec'd	3/10/22	Nat. Hert.	yes
Earliest Start	3/25/22	Pub. Dr. Wat.	yes
River Basin	Chicopee	ACEC	No
Gen. Obj.	LT		

### Location

FINAL (5/25)

Town New Salem QUABBIN LOT 3171  
Road Millington Rd (via Quabbin Gate 29)  
Acres 67 Proposed Start Date April 2022  
Vol. MBF 120.4 Vol. Cds. 48 Vol. Tons 156

### Site Information

### Plan Preparer

Name Helen Johnson & Richard G MacLean  
Address DCR DWSP Quabbin Forestry  
485 Ware Road  
Town, State, Zip Belchertown, MA 01007  
Phone (617) 733-2937  
Type of Preparer LF  
\*Mass. Forester License # 383 (HJ)  
\*Required for land under Ch61, Ch61A or Forest Stewardship

### Landowner

Name DCR-DWSP, Quabbin & Ware River Region  
Mailing Address 485 Wrae Road  
Town, State, Zip Belchertown, MA 01007  
Phone 617-733-2937  
Ch61  61A  61B  Stew  \*Case #  
FSC  CR  CR Holder

### Licensed Timber Harvester\*\*

Name TBD  
Address \_\_\_\_\_  
Town, State, Zip \_\_\_\_\_  
Phone \_\_\_\_\_  
Mass. Lic. Harvester # \_\_\_\_\_

\*\*This information may be supplied after the plan is approved, but before work begins

### Stream Crossings

Indicate location on map	SC-1	SC-2	SC-3	SC-4
Type of Crossing				
Existing Structure				
Type of Bottom				
Bank Height (ft)				
Stabilization				

### Best Management Practices

### Wetland Crossings

Indicate location on map	WC-1	WC-2	WC-3	WC-4
Length of Crossing	30'			
Mitigation	FR/DR			
Stabilization	CO/MU			

### Codes

### Filter Strips

Indicate location on map	FS-1	FS-2	FS-3	FS-4
Width (50', 100', or VA)				

### Harvesting in Wetlands

Indicate location on map	HW-1	HW-2	HW-3	HW-4
Forest Type (see pg 2)				
Acre to be Harvested				
Resid. Basal Area (>50%?)				

### Service Forester Comments

\*Heritage - No Impact - See Attached AR

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom	Note
LF Mass. Lic. For.	CU Culvert	SE Seed	FR Frozen	LE Ledge	Applicant must provide DCR with all relevant information before plan may be approved and cutting may begin.
TH Lic. Tim. Har	BR Bridge	MU Mulch	DR Dry	ST Stony	Some forestry activities, such as prescribed burning and pesticide or fertilizer application may require additional permits.
TB Timber Buyer	FO Ford	CO Corduroy	OT Other	MU Mud	Consult MA Forestry BMP Manual for further information.
LO Landowner	PO Poled	ST Stone		GR Gravel	
OT Other	OT Other	HB Hay Bales		OT Other	
		OT Other			

If Other (OT) is used in any category an explanation must be given on an attached narrative page

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## Forest Cutting Plan page 2 of 7

<b>Forest Products</b>	<b>Products to be Harvested*</b>		
	<b>Species</b>	<b>Mbf/Cds</b>	<b>Mbf/Cds</b>
White Pine	116.300	Red Maple	
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	
Hemlock		Black Oak	3.000
Spruce		White Oak	
Other Sftwd.		Other Hdwd.	1.000
White Ash		<b>Total Mbf</b>	120.300
Beech		<b>Cordwood (Cds)</b>	48.000
White Birch		<b>SW Pulp (Tons)</b>	156.000
B & Y Birch		<b>HW Pulp (Tons)</b>	
Black Cherry		<b>Chips (Tons)</b>	0.000

**Cutting Standards**

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WP	WO	WO	RP
Acres	27.000	20.000	17.000	3.000
Landowner Objective	LT	LT	LT	LT
Designation of Trees	CT	CT	CT	CT
Type of Cut	SE	SE	SE	SA
Source of Regeneration	SE	SE	SE	SE

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<b>Landowner</b>	<b>Landowner Signature</b>				
	<p>The most important information on a cutting plan is the Landowner's objective, as this will determine which trees will be harvested and which will remain; <b>this decision will also determine the future condition of the forest for decades to come.</b> After having read the Massachusetts Forest Cutting Plan Information Sheet on page one, indicate your objective by checking the appropriate box below.</p> <p><input checked="" type="checkbox"/> <b>LT – Long-term Forest Management</b> Planned management of the forest to achieve one or more of the following objectives: produce immediate and maximize long-term income, enhance wildlife habitat, improve recreational opportunities, protect soil and water quality, or produce forest specialty products.</p> <p><input type="checkbox"/> <b>ST - Short-term Harvest</b> Harvest of trees with the main intention of producing short-term income with minimal consideration given to improving the future forest condition, which often results in a forest dominated by poor quality and low value species.</p> <p>I (we) have read the Massachusetts Cutting Plan Information Sheet, and am aware of my (our) management options. I (we) hereby certify that I (we) have the legal authority to carry out the operation described above. I (we) certify that I (we) have notified the Conservation Commission in the town in which the operation is to take place and the abutters of record within two hundred feet of the area to be harvested. I (we) understand that the volumes and values (Ch61 only) in this plan have not been independently verified by the service forester upon approval and will report final values and volumes to the Director or his/her agent if the final figures differ from those reported.</p>				
Signature of landowner(s)	(next pg)				

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<b>Service Forester</b>	<b>Determination and Status</b>			<b>Final Report and Comments</b>	
	Approved	Disapproved	Expires	<p>I hereby certify that the afore described Forest Cutting Plan and all relevant statutes have been substantially complied with.</p> <p> <span style="float: right;">5.7.25</span></p>	
Cutting Plan <input checked="" type="checkbox"/> <input type="checkbox"/> 03/10/2024			<p> <span style="float: right;">03/24/2022</span></p> <p>Signature of Service Forester/Director's Agent Date</p>		
<p>Extension <input type="checkbox"/> <input type="checkbox"/> Expires _____ Ser. For. Ints. _____</p> <p>Amendment App 1 <input type="checkbox"/> Dis 1 <input type="checkbox"/> App 2 <input type="checkbox"/> Dis 2 <input type="checkbox"/> _____</p>			<p> <span style="float: right;">5.7.25</span></p> <p>Signature of Service Forester/Director's Agent Date</p>		

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<b>Codes</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Forest Types</th> <th colspan="4">Designation of Trees</th> <th colspan="2">Type of Cut</th> <th colspan="4">Source of Regeneration</th> </tr> </thead> <tbody> <tr> <td>WP</td> <td>White Pine</td> <td>HK</td> <td>Hemlock</td> <td>OM</td> <td>Mixed Oak</td> <td>CT</td> <td>Cut Tree</td> <td>SH</td> <td>Shelterwood</td> <td>Intermediate Harvests:</td> <td>AD Advanced</td> </tr> <tr> <td>WK</td> <td>WP/Hem</td> <td>HH</td> <td>Hem/Hdwd</td> <td>RM</td> <td>Red Maple</td> <td>LT</td> <td>Leave Tree</td> <td>ST</td> <td>Seed Tree</td> <td>CT</td> <td>Commercial Thin</td> </tr> <tr> <td>WH</td> <td>WP/Hdwd</td> <td>BC</td> <td>Bleck Cherry</td> <td>BE</td> <td>Beech</td> <td>SB</td> <td>Stand Boundary</td> <td>CC</td> <td>Clear Cut</td> <td>NT</td> <td>Non Com Thin</td> </tr> <tr> <td>WO</td> <td>WP/Oak</td> <td>BB</td> <td>Bee/Bir/Map</td> <td>SF</td> <td>Spruce/Fir</td> <td>OT</td> <td>Other</td> <td>SE</td> <td>Selection</td> <td>PL</td> <td>Plant</td> </tr> <tr> <td>RP</td> <td>Red Pine</td> <td>OH</td> <td>Oak/Hdwd</td> <td>SM</td> <td>Sugar Maple</td> <td>Landowner Objective</td> <td>SA</td> <td>Salvage</td> <td>HG</td> <td>Highgrade*</td> <td>CO Coppice</td> </tr> <tr> <td>SR</td> <td>Red Spruce</td> <td>OR</td> <td>N Red Oak</td> <td>PP</td> <td>Pitch Pine</td> <td>LT</td> <td>Long-term Mgt.</td> <td>SN</td> <td>Sanitation</td> <td>DL</td> <td>Direct Seed</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ST</td> <td>Short-term Har.</td> <td>OT</td> <td>Other*</td> <td>OT</td> <td>Other</td> </tr> </tbody> </table>												Forest Types		Designation of Trees				Type of Cut		Source of Regeneration				WP	White Pine	HK	Hemlock	OM	Mixed Oak	CT	Cut Tree	SH	Shelterwood	Intermediate Harvests:	AD Advanced	WK	WP/Hem	HH	Hem/Hdwd	RM	Red Maple	LT	Leave Tree	ST	Seed Tree	CT	Commercial Thin	WH	WP/Hdwd	BC	Bleck Cherry	BE	Beech	SB	Stand Boundary	CC	Clear Cut	NT	Non Com Thin	WO	WP/Oak	BB	Bee/Bir/Map	SF	Spruce/Fir	OT	Other	SE	Selection	PL	Plant	RP	Red Pine	OH	Oak/Hdwd	SM	Sugar Maple	Landowner Objective	SA	Salvage	HG	Highgrade*	CO Coppice	SR	Red Spruce	OR	N Red Oak	PP	Pitch Pine	LT	Long-term Mgt.	SN	Sanitation	DL	Direct Seed							ST	Short-term Har.	OT	Other*	OT	Other
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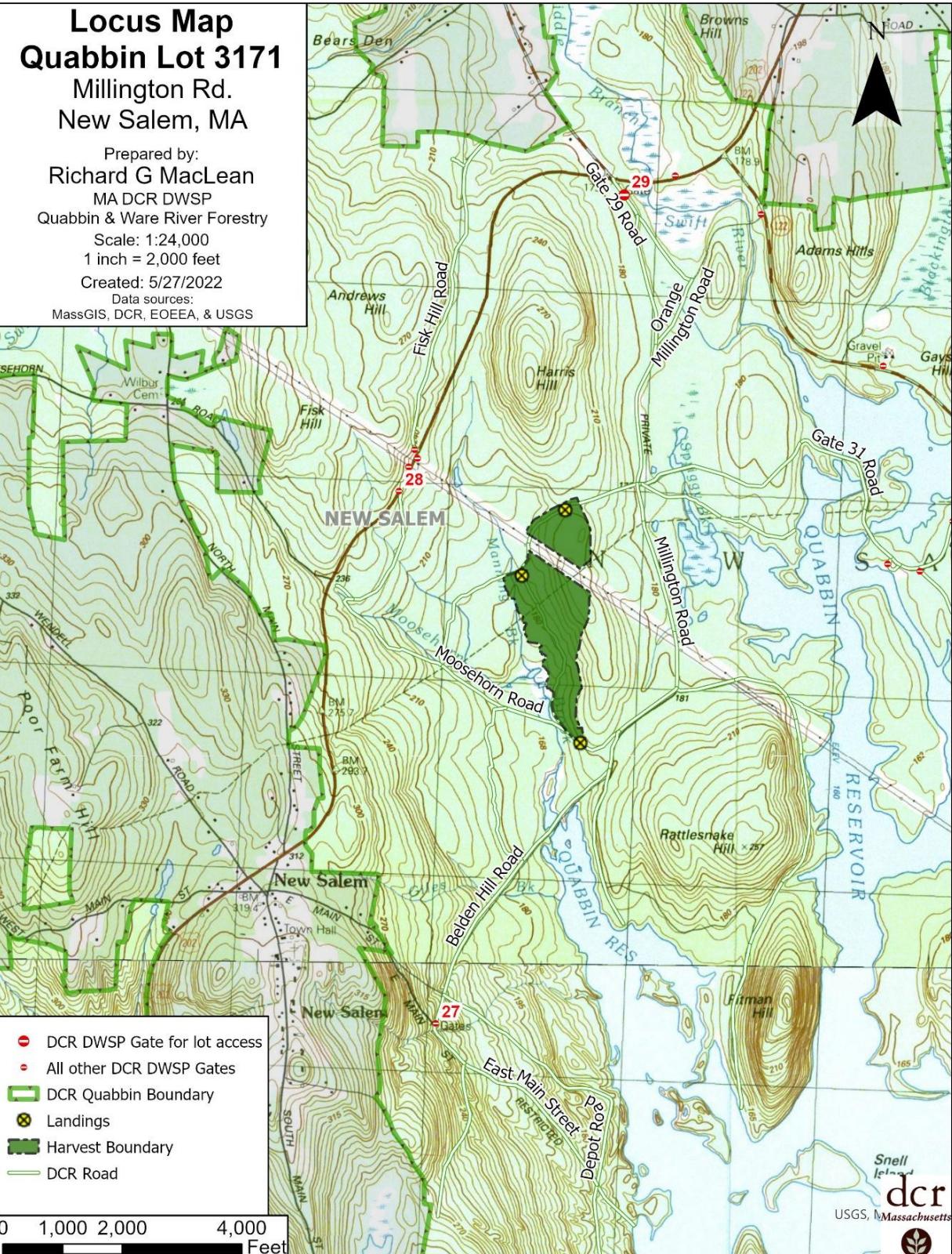
## Forest Cutting Plan page 3 of 7

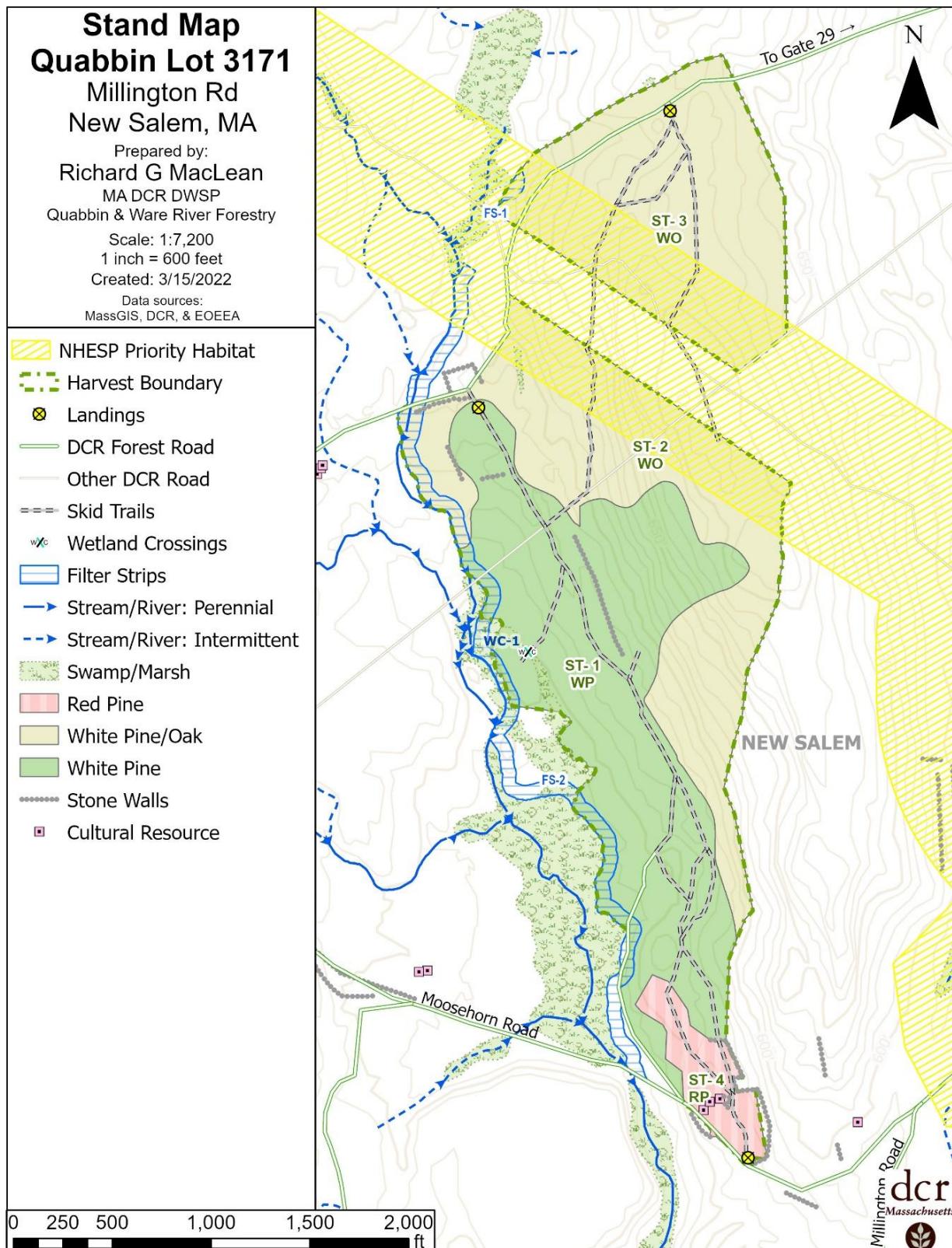
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\*If Other (OT) or a non-standard system is used an explanation must be given on attached narrative page

pg 4 of 5

Forest Cutting Plan page 4 of 7





## Forest Cutting Plan page 6 of 7



### DIVISION OF FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581  
p: (508) 389-6300 | f: (508) 389-7890  
**MASS.GOV/MASSWILDLIFE**

Andrew Rawcliffe  
Department of Conservation and Recreation  
P. O. Box 484  
40 Cold Storage Drive  
Amherst, MA 01004

Cutting Plan No. 204.33810.22  
NHESP Tracking No. 22-40922  
Town New Salem  
Road Millington  
Landowner DCR DWSP  
Preparer Helen Johnson  
Date March 24, 2022

Dear Andrew,

The Natural Heritage and Endangered Species Program (NHESP) of the Massachusetts Division of Fisheries and Wildlife ("the Division") has reviewed the above-referenced Forest Cutting Plan ("the Plan") pursuant to the special approval procedures of the Forest Cutting Practices Regulations (304 CMR 11.04(6)). Based on details of the Plan and information in our database, the Division does not expect activities proposed in the Plan to negatively impact Estimated Habitat or result in Take (as defined in 321 CMR 10.02) of plant or animal species protected under the Massachusetts Endangered Species Act (MESA) (M.G.L. c. 131A) and its implementing regulations (321 CMR 10.00). Therefore, the Division does not require that the Plan be modified at this time.

Please copy the Division on any proposed amendment, extension and on the approved Plan for the site. If you have any questions about this letter, please contact David Paulson at (508) 389-6366 or David.Paulson@mass.gov.

Sincerely,

A handwritten signature in black ink that reads "Everose Schlüter".

Everose Schlüter, Ph.D.  
Assistant Director

Cc: New Salem Conservation Commission

**MASSWILDLIFE**



COMMONWEALTH OF MASSACHUSETTS  
Department of Conservation and Recreation  
Division of State Parks and Recreation

FILE # 204-33810-22

# V

## FOREST CUTTING PLAN CERTIFICATE

Post this in a conspicuous place within the area in which the harvesting operation is to take place.

This certifies that Quabbin/Ware River Region DCR-DWSP 485 Ware Rd, Belchertown, MA in accordance with the  
(Name of Owner) 01007  
(Address)

provision of M.G.L. Chapter 132, Section 40-46, filed in Amherst F.O. with the Dept. of Conservation  
and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the  
"2171" <sup>lot</sup> New Salem  
(Millington Rd/Gate 2A)

Approval Date 3/24/22  
Director's Agent Andrew Rawcliffe  
DCR Phone No. 617-541-1677

ISSUED BY:

A handwritten signature in black ink that reads "Priscilla E. Geigis".

Priscilla E. Geigis, Director  
Division of State Parks and Recreation

## Photo Series

### *Photo Point 1*

**Before harvest (November 2022)**



**Immediately after harvest (December 2022)**



*Photo Point 1, continued*

**One growing season after harvest (July 2023)**



**Three growing seasons after harvest (September 2023)**



**Photo Point 2**

**Before harvest (November 2022)**



**Immediately after completion of the harvest (December 2022)**



*Photo Point 2, continued*

**One growing season after harvest (July 2023)**



**Three growing seasons after harvest (September 2023)**

