

**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 RCVD

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

Site Information

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

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.

Best Management Practices

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				

Wetland Crossings

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

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)				
Acres to be Harvested				
Resid. Basal Area (>50%)				

Service Forester Comments

** Heritage - No Impact - See Attached - AR*

Codes

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom
LF Mass. Lic. For.	CU Culvert	SE Seed	FR Frozen	LE Ledge
TH Lic. Tim. Har	BR Bridge	MU Mulch	DR Dry	ST Stony
TB Timber Buyer	FO Ford	CO Corduroy	OT Other	MU Mud
LO Landowner	PO Poled	ST Stone		GR Gravel
OT Other	OT Other	HB Hay Bales		OT Other
		OT Other		

Note:
Applicant must provide DCR with all relevant information before plan may be approved and cutting may begin.
Some forestry activities, such as prescribed burning and pesticide or fertilizer application may require additional permits. Consult MA Forestry BMP Manual for further information.

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

Forest Products

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
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		Total Mbf	120.300
Beech		Cordwood (Cds)	48.000
White Birch		SW Pulp (Tons)	156.000
B & Y Birch		HW Pulp (Tons)	
Black Cherry		Chips (Tons)	0.000

*Note: Volumes and values indicated in the Plan are as reported by the plan preparer and have not been independently verified by the service forester upon approval. Mbf = thousand board feet.

Stand Treatment

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

Landowner

Landowner Signature

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; **this decision will also determine the future condition of the forest for decades to come.** After having read the Massachusetts Forest Cutting Plan Information Sheet on page one, indicate your objective by checking the appropriate box below.

**LT - Long-term Forest Management**

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.

**ST - Short-term Harvest**

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.

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.

3-10-22
(See scan)

Signature of landowner(s)

Date

Service Forester

Determination and Status

Approved ☒ Disapproved ☐ Expires 03/10/2024

SP [Signature] 03/24/2022
Signature of Service Forester/Director's Agent Date

Extension 1 ☐ 2 ☐ Expires 1 Ser. For. Ints. 1

Amendment App 1 ☐ Dis 1 ☐ App 2 ☐ Dis 2 ☐ 1

Final Report and Comments

I hereby certify that the afore described Forest Cutting Plan and all relevant statutes have been substantially complied with.

[Signature] 5.7.25
Signature of Service Forester/Director's Agent Date

Codes

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	SE	Natural Seed
WH	WP/Hdwd	BC	Black Cherry	BE	Beech	SB	Stand Boundary	CC	Clear Cut	NT	Non Corn Thin	PL	Plant
WO	WP/Oak	BB	Bee/Bir/Map	SF	Spruce/Fir	OT	Other	SE	Selection	Non-Standard Systems:*		CO	Coppice
RP	Red Pine	OH	Oak/Hdwd	SM	Sugar Maple	Landowner Objective		SA	Salvage	HG	Highgrade*	DS	Direct Seed
SR	Red Spruce	OR	N Red Oak	PP	Pitch Pine	LT	Long-term Mgt.	SN	Sanitation	DL	Diameter Limit*	OT	Other
						ST	Short-term Har.			OT	Other*		

*If Other (OT) or a non-standard system is used an explanation must be given on attached narrative page pg 4 of 6

Forest Products

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	116.3	Red Maple	
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	
Hemlock		Black Oak	3
Spruce		White Oak	
Other Sftwd.		Other Hdwd.	1
White Ash		Total Mbf	120.4
Beech		Cordwood (Cds)	48
White Birch		SW Pulp (Tons)	156
B & Y Birch		HW Pulp (Tons)	
Black Cherry		Chips (Tons)	

*Note: Volumes indicated in the Plan are as reported by the plan preparer and have not been independently verified by the service forester upon approval. Mbf = thousand board feet.

Stand Treatment

Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WP	WO	WO	RP
Acres	27	20	17	3
Landowner Objective	LT	LT	LT	
Designation of Trees	CT	CT	CT	CT
Type of Cut	SE	SE	SE	SA
Source of Regeneration	SE	SE	SE	SE

Landowner

Landowner Signature

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; this decision will also determine the future condition of the forest for decades to come. After having read the Massachusetts Forest Cutting Plan Information Sheet on page one, indicate your objective by checking the appropriate box below.

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I (we) understand that the volumes 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.

Dan Clark
Digitally signed by Dan Clark

Clark
Date: 2022.03.10 12:13:24
+05'00'

3/10/2022

Signature of landowner(s)

Date

Service Forester

Determination and Status

Approved Disapproved Expires
Cutting Plan ☐ ☐ _____

Signature of Service Forester/Director's Agent _____ Date _____

Extension 1 ☐ 2 ☐ Expires / Ser. For. Ints. /

Amendment App 1 ☐ Dis 1 ☐ App 2 ☐ Dis 2 ☐ /

Final Report and Comments

I hereby certify that the afore described Forest Cutting Plan and all relevant statutes have been substantially complied with.

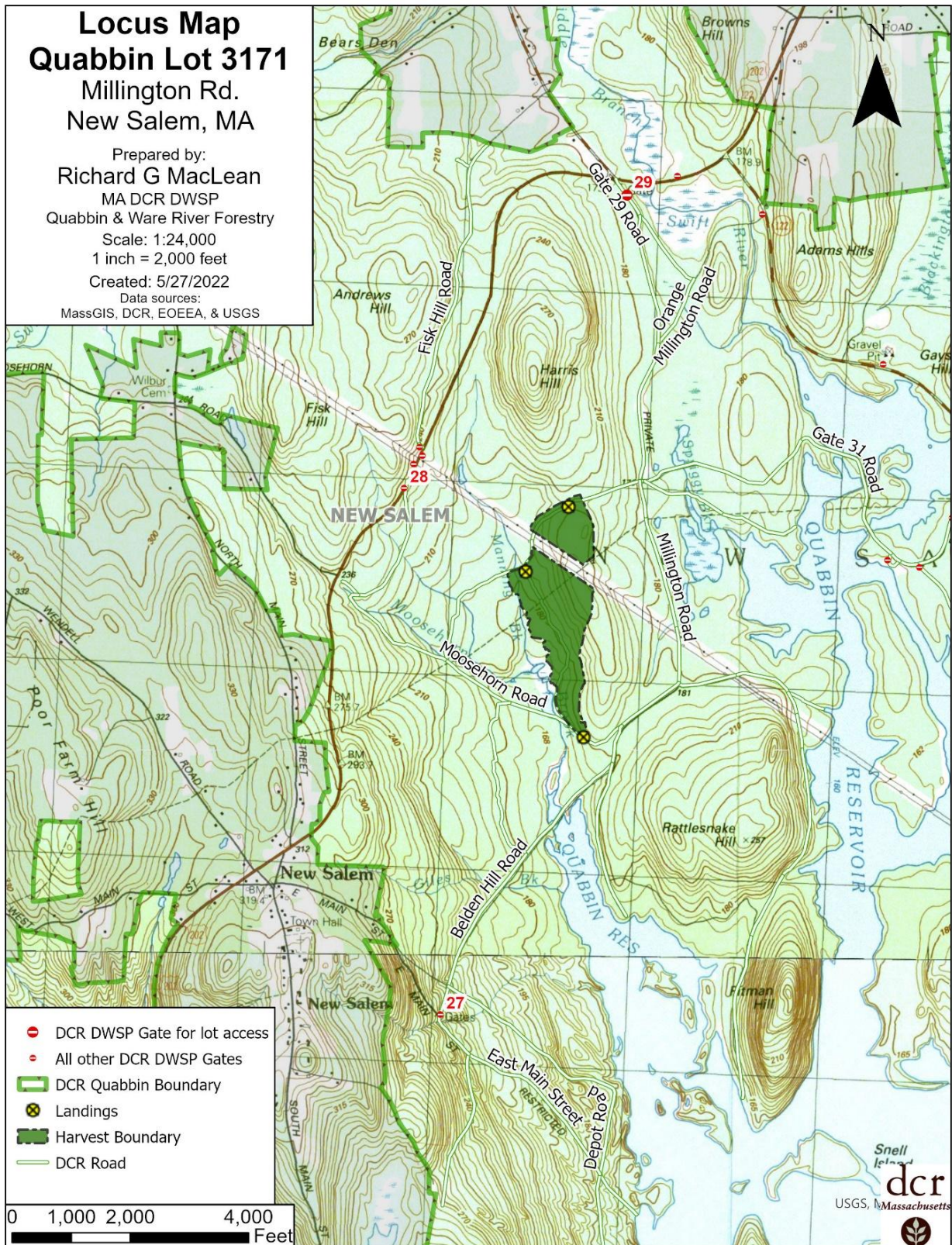
Signature of Service Forester/Director's Agent _____ Date _____

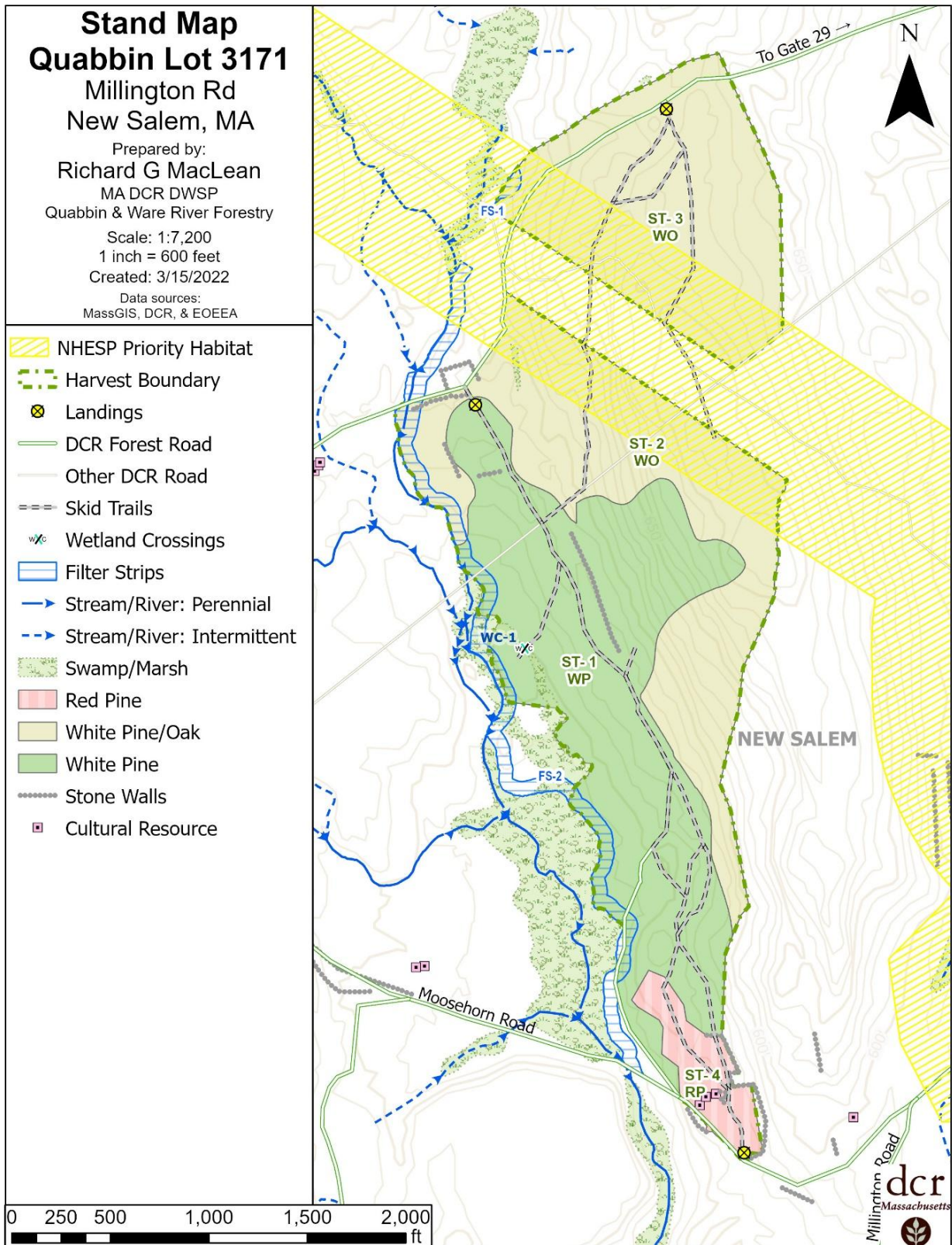
Codes

Forest Types				Designation of Trees		Type of Cut		Source of Regeneration	
WP	White Pine	HK	Hemlock	OM	Mixed Oak	CT	Cut Tree	SH	Shelterwood
WK	WP/Hem	HH	Hem/Hdwd	RM	Red Maple	LT	Leave Tree	ST	Seed Tree
WH	WP/Hdwd	BC	Black Cherry	BE	Beech	SB	Stand Boundary	CC	Clear Cut
WO	WP/Oak	BB	Bee/Bir/Map	SF	Spruce/Fir	OT	Other	SE	Selection
RP	Red Pine	OH	Oak/Hdwd	SM	Sugar Maple	SA	Salvage	NT	Non Com Thin
SR	Red Spruce	OR	N Red Oak	PP	Pitch Pine	LT	Long-term Mgt	CO	Coppice
						ST	Short-term Har.	DS	Direct Seed
								OT	Other

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

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MASSWILDLIFE

**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,

Everose Schlüter, Ph.D.
Assistant Director

Cc: New Salem Conservation Commission

MASSWILDLIFE

dcR

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



FILE #

204-33810-22

W

FOREST CUTTING PLAN CERTIFICATE

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

Quabbin/Ware River Region

This certifies that

DCR-DWSP

(Name of Owner)

485 Ware Rd, Belchertown, MA

(Address)

01007

in accordance with the

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

"3171" lot, New Salem
(Millington Rd/Gate 29)

Approval Date

3/24/22

Director's Agent

Andrew Rawcliffe

DCR Phone No.

617-549-1677

ISSUED BY:

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)

