

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

**Project Title: Moosehorn and North Main**

DWSP Harvest Permit Number: 3165

DWSP Proposal ID: NS-16-15

DCR Forest Cutting Plan File Number: 204-28932-21

***Location Information***

Watershed: Quabbin

Town(s): New Salem

Acres: 33.1

Nearest Road: Moosehorn Road

Natural Heritage Atlas overlap?: No

Public Drinking Water Supply Watershed?: Yes

Area of Critical Environmental Concern (ACEC)?: No

***Site Information***

Forest Types: white pine-hemlock, hemlock, and oak-hardwood, northern hardwoods

Soils: Montauk fine sandy loam, 3-25% slopes, and Chatfield-Hollis complex, 8-15% slopes.

Wetland Resources: A long, narrow wetland between two hills nearly bisects the project area, starting about 350 feet from the north border of the harvest area and extending to the south border. A second, smaller wetland starts about 90 feet from North Main Street and extends 150 feet east, where it becomes an intermittent stream that crosses an existing cart road before entering the large wetland.

Vernal Pools: none known

***Harvest Information***

Harvest Start Date: March 12, 2021

Harvest End Date: May 19, 2021

Number of Wetland Crossings: one

Number of Stream Crossings: none

***Best Management Practices Applied***

Stream Crossings: n/a

Filter Strips: Variable width filter strips on internal and adjacent wetlands and streams, including Moosehorn Brook across the Moosehorn Road to the north.

Wetland Crossings: Stabilized with corduroy, mitigated with bridge panels..

Harvesting in Wetlands: n/a

***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 3165 is located in New Salem between North Main Street and Moosehorn Roads. The terrain descends easterly from North Main Street to a long narrow wetland, then up and over a ridge and back down to Moosehorn Road.

The overstory is primarily emergent white pine and hemlock over diverse mixed hardwoods, including red and black oak, black birch and red maple, as well as smaller components of sugar maple, white ash, black cherry, and yellow birch, as well as occasional poplars and pitch pine. Hemlock is most prevalent in the eastern portion of the lot, becoming nearly pure hemlock with little or no regeneration on parts of the ridge near Moosehorn Road.

Forest health is variable. Many of the hemlocks have thinning crowns due to hemlock wooly adelgid, and possibly also hemlock elongate scale. The white pine has been moderately impacted by white pine weevil, but it's generally still vigorous. Nectria fungus and sugar maple borer are also present.

### ***Site Selection***

This site was selected because its high proportion of tall overstory pines and hemlocks, combined with inadequate regeneration make it a high risk for severe stand damage in the event of a major windstorm (hurricane, tornado, microburst, etc.) or other natural disaster.

### ***Silvicultural Objectives***

The primary objective is to create a new age class of vigorous young trees of all species through small group selection, with openings up to two acres. Group size will be appropriate for the terrain, with the larger openings located on the most moderate slopes. Openings will be irregular in shape, and will be located where there are clusters of trees that are diseased, declining, or have unstable stem structure. Declining hemlock, weevilled white pine, nectria-infected black birch, and other diseased and declining trees will be prioritized for removal. Oaks, hickories, northern hardwoods (sugar maple, white ash, black cherry, and yellow birch) and pitch pine will be favored for retention. The healthiest individuals of all species will be retained.

### ***Cultural Resources***

There are several stone walls in the northwestern corner of the lot, near North Main Street. These will be avoided and protected as much as possible; however due to terrain limitations it is necessary to cross two of the walls in locations where they've been crossed in the past. There are no other known cultural features in the project area.

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

NHESP has not identified any rare or endangered species in the project area.

# Forest Cutting Plan

Forest Cutting Plan page 1 of 7

## 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) *Amendment 1 (3/21)*

### For DCR Use Only:

File Number 20428931.21 Case No. —  
Date Rec'd 8-12-20 Nat. Hert. NA  
Earliest Start 8-27-20 Pub. Dr. Wat. Yes  
River Basin Chicopee ACEC NA  
Gen. Obj. LT

Site Information

### Location

Town New Salem Quabbin Lot 3165 Amendment 1  
Road North Main Street  
Acres 33.1 Proposed Start Date 9/9/2020  
Vol. MBF 46.1 Vol. Cds. 50 Vol. Tons 96

### Plan Preparer

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

### Landowner

Name DCR-DWSP, Quabbin Section (ATTN: Forestry)  
Mailing Address 485 Ware Road  
Town, State, Zip Belchertown, MA 01007  
Phone 617-733-2937  
Ch61 ☐ 61A ☐ 61B ☐ Stew ☐ \*Case #  
FSC ☐ CR ☐ CR Holder

### Licensed Timber Harvester\*\*

Name John Conkey and Sons Logging  
Address 621 Daniel Shays Highway  
Town, State, Zip Belchertown, MA 01007  
Phone (413) 883-2182  
Mass. Lic. Harvester # 2021-039, -106, -1847, -1848  
\*\*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	<u>40'</u>			
Mitigation	<u>OT</u>			
Stabilization	<u>CO</u>			

### Filter Strips

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

### 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

*Replace SC-1 w/WC-1 to favor  
Equipment Safety and operability -AK*

Codes

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

Products to be Harvested*			
Species	Mbf/Cds		Mbf/Cds
White Pine	22.400	Red Maple	
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	1.200
Hemlock	19.600	Black Oak	
Spruce		White Oak	
Other Sftwd.		Other Hdwd.	2.900
White Ash		<b>Total Mbf</b>	<b>46.100</b>
Beech		<b>Cordwood (Cds)</b>	
White Birch		<b>SW Pulp (Tons)</b>	
B & Y Birch		<b>HW Pulp (Tons)</b>	
Black Cherry		<b>Chips (Tons)</b>	

\*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.

Cutting Standards				
Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WK			
Acres	33.100			
Landowner Objective	LT			
Designation of Trees	CT			
Type of Cut	SE			
Source of Regeneration	SE			

**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.

*Sig uploaded*  
Signature of landowner(s) \_\_\_\_\_ Date *See next pg*

**Determination and Status**

Approved ☒ Disapproved ☐ Expires 08/12/2022  
Cutting Plan *8/2/20*  
Signature of Service Forester/Director's Agent \_\_\_\_\_ Date \_\_\_\_\_

Extension 1 ☐ 2 ☐ Expires \_\_\_\_\_ Ser. For. Ints. 1  
Amendment App 1 ☒ Dis 1 ☐ App 2 ☐ Dis 2 ☐ *AK*  
*3-17-21*

**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 \_\_\_\_\_

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 Blck Cherry	BE Beech	SB Stand Boundary	CC Clear Cut	NT Non Com 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



Products to be Harvested*			
Species	Mbf/Cds		Mbf/Cds
White Pine	22.4	Red Maple	
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	1.2
Hemlock	19.6	Black Oak	
Spruce		White Oak	
Other Sftwd.		Other Hdwd.	2.9
White Ash		Total Mbf	
Beech		Cordwood (Cds)	
White Birch		SW Pulp (Tons)	
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.

Cutting Standards				
Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WK			
Acres	33.1			
Landowner Objective	LT			
Designation of Trees	CT			
Type of Cut	SE			
Source of Regeneration	SE			

**Landowner Signature**

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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.

Signature of landowner(s) \_\_\_\_\_ Date 8-11-2020

**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
WK WP/Hem	HH Hem/Hdwd	RM Red Maple	LT Leave Tree
WH WP/Hdwd	BC Black Cherry	BE Beech	SB Stand Boundary
WO WP/Oak	BB Bee/Bir/Map	SF Spruce/Fir	OT Other
RP Red Pine	OH Oak/Hdwd	SM Sugar Maple	Landowner Objective
SR Red Spruce	OR N Red Oak	PP Pitch Pine	LT Long-term Mgt.
			ST Short-term Har.
			SH Shelterwood
			ST Seed Tree
			CC Clear Cut
			SE Selection
			SA Salvage
			SN Sanitation
			OT Other*
			Intermediate Harvester:
			CT Commercial Thin
			NT Non Com Thin
			CO Coppice
			DS Direct Seed
			OT Other

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

# Forest Cutting Plan

Narrative Page (Effective Date: 3/15/16)

Use this page to provide further explanation or if

Other (OT) was used in any category on pages 3 or 4.

Landowner DCR-DWSP

Town New Salem

File Number \_\_\_\_\_

BMPs

Use this Section to provide further explanation or if Other (OT) was used in any category in the Best Management Practices Section on Page 3.

SC-1 is an existing ford on an intermittent stream with a hard bottom. Consistent with the DWSP Land Management Plan, it will be bridged if flowing. However the stream rarely contains water, so bridging is unlikely to be necessary. If the stream bed is damp but does not contain flowing water, tops and slash will be used to stabilize the soil. In dry conditions no stabilization will be necessary.

Designation of Trees

Use this Section to describe the types of trees to be harvested and/or retained if Other (OT) was used for "Designation of Trees" in the Stand Treatment Section on page 4. Additional narrative description may be added on a separate page.

Stand No.	Describe Trees to be Cut			Describe Trees to be Left			% BA/AC	
	Species	Size	Quality	Species	Size	Quality	Cut	Left

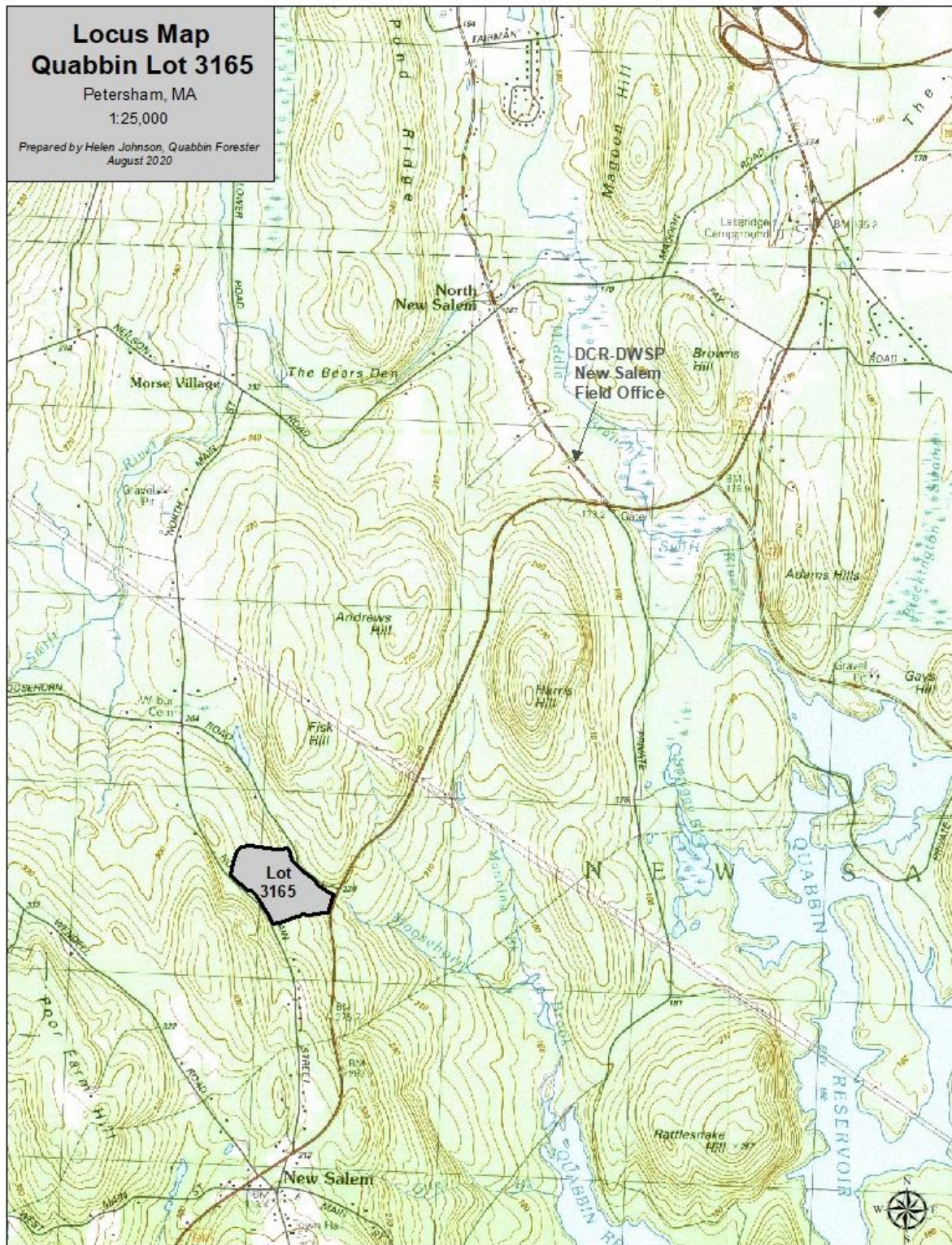
Regeneration & Future Condition

Use this Section to describe how Chapter 132 requirements will be met if a non standard system (HG, DL, or OT) was used for the "Type of Cut" in the Cutting Standards Section on page 4.

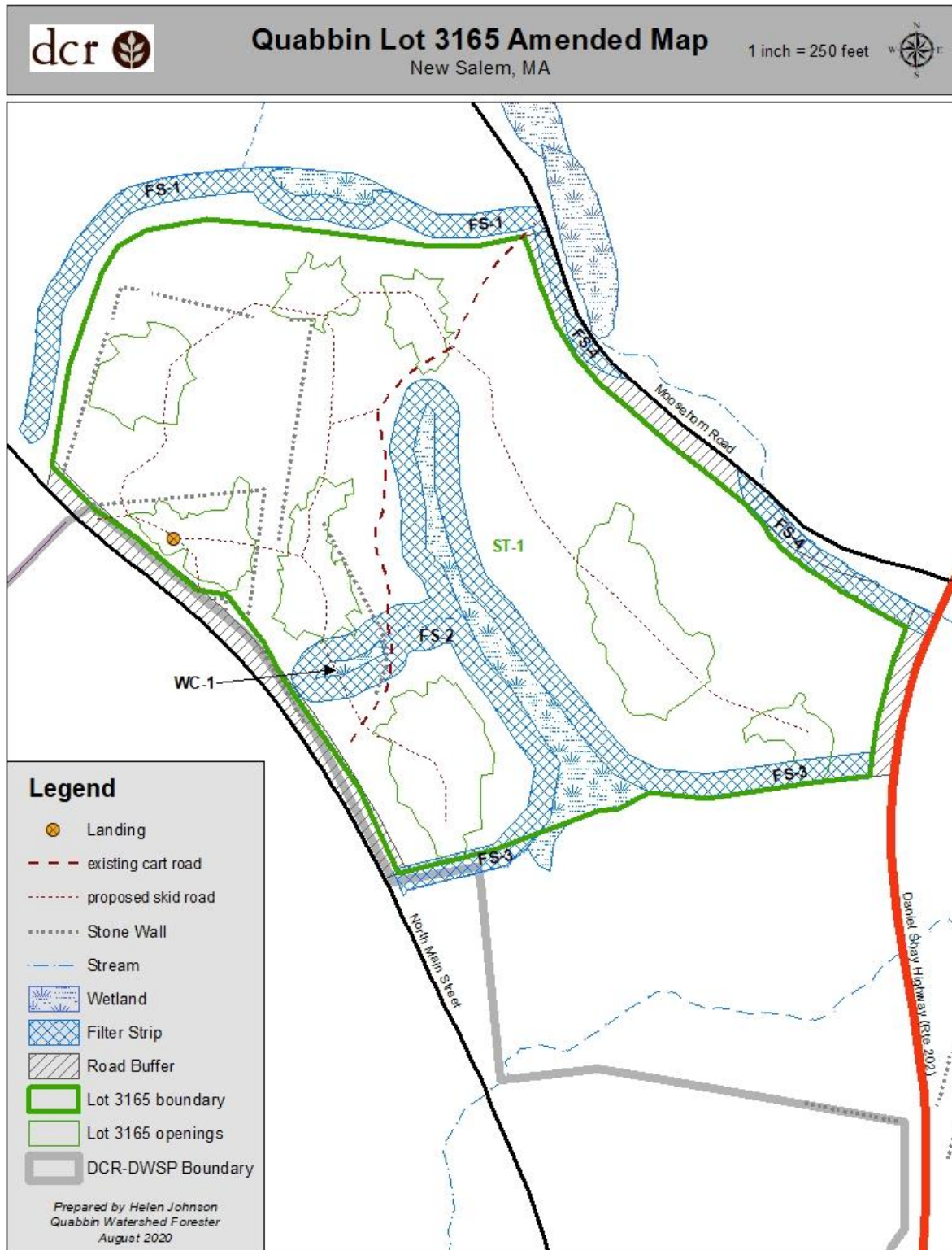
Stand No.      Source of Regeneration (ex. AD, SE)      How will Regeneration be obtained/protected?  
 If using AD - Describe the species present and how the regeneration will be protected  
 If using SE - Describe the source of the seed and the number of seed trees/acre


Stand No.      Desired Future Condition  
 Describe what the stand is expected to look like five years from the harvest, including the condition of the overstory & understory









dc



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

FILE #

204-28931-21

W

## 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 DCR-DWSP Quabbin Ware Rd, Belchertown, MA in accordance with the  
(Name of Owner) (Address) 01007

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  
Quabbin 3165 lot, New Salem

Approval Date

8/21/2020

Director's Agent

Andrew Lawcliffe

DCR Phone No.

617-549-1677

ISSUED BY:

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