

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

**Project Title:** William F. Chamberlain Lot  
DWSP Harvest Permit Number: S16NQ  
DWSP Proposal ID: PR-21-10  
DCR Forest Cutting Plan File Number: 204-32470-22

***Site Information***

Watershed: Quabbin  
Town(s): New Salem  
Acres: 15.7  
Nearest Road: Route 202, Cooleyville Rd. (Gate 17)  
Natural Heritage Atlas overlap?: Yes  
Public Drinking Water Supply Watershed?: Yes  
Forest Types: White Pine/Red Pine  
Area of Critical Environmental Concern (ACEC)?: No  
Soils: Henniker sandy loam  
Wetland Resources: No  
Vernal Pools: No

***Harvest Information***

Harvest Start Date: September 23, 2021  
Harvest End Date: December 13, 2021  
Number of Wetland Crossings: 0  
Number of Stream Crossings: 3

***Best Management Practices Applied***

Stream Crossings: Temporary skid bridges to armor 2 existing culverts & cross intermittent brook  
Filter Strips: 3 variable width filter strips  
Wetland Crossings: Not Applicable  
Harvesting in Wetlands: Not Applicable

***DWSP Forester supervising this harvest***

Name: Derek Beard  
Forester License number: 14  
Phone number: 617-780-0631  
Email: derek.beard@mass.gov

## **Narrative**

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

This watershed forestry project covers 15.7 acres; most of which is a White/Red Pine forest (all the red pine is plantation) located just north of the old UMASS observatory site on the west side of the gate 17 Road (Prescott Rd). Ancillary to the main project is a 2-acre section to the southwest that has excellent white pine regeneration with an overstory of black birch, white pine and dead/dying hemlock.

The main area was thinned in 1990. Beginning in the early to middle 2000s, red pine, throughout the watershed, began to rapidly die from a severe red pine scale infestation. The pest pierces the host's inner bark, disrupting the flow of water and nutrients leading to needle desiccation and eventual death. A sure sign of desiccation is browning (rust color) needles from late spring through summer. The ancillary section was thinned in the mid-1960s.

### ***Site Selection***

The primary goal of the watershed forest management program is to create and maintain a forest that provides high quality drinking water to current users and future generations. To achieve this, DWSP has determined that the forest should contain a diversity of species in various stages of development (seedlings through large legacy trees). In addition, the forest should be vigorous; actively growing and regenerating. Forest in this condition is suited to be resilient to and quickly recover from small- and large-scale disturbances such as disease, insect infestation, ice storms and hurricanes. Declining forest health coupled with an underrepresented young forest layer merits some regeneration harvesting.

### ***Silvicultural Objectives***

Harvest purpose is to reduce further red pine mortality by removing the plantations, improving timber quality of native species (primarily white pine) and release/spur growth of a young forest age class. Achievement of these objectives should lead to greater forest diversity and resiliency over the long term.

### ***Cultural Resources***

The area is home to numerous stone walls, and two old fieldstone lined wells.

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

Maintaining and/or enhancing habitat is a high priority when planning and executing watershed forest management projects. As such, retaining live and dead snags, trees that show sign of use by wildlife for nesting/denning, territorial marking/scenting and foraging is a priority.

The project area is amid a natural heritage bubble. Upon review by the MA Natural Heritage and Endanger Species program, the project was deemed to have no impact on priority specie(s).

## Figures

- Figure 1. Forest Cutting Plan
- Figure 2. Photo Point Pictures

Figure 1. Forest Cutting Plan

# 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	204-32470-22	Case No.	NA
Date Rec'd	08/12/2021	Nat. Hert.	True
Earliest Start	08/27/2021	Pub. Dr. Wat.	Yes
River Basin	Chicopee	ACEC	False
Gen. Obj.	LT		

Site Information

**Location**

Town New Salem  
Road Cooleyville Rd. (Gate 17)  
Acres 15.70 Proposed Start Date 10/05/2021  
Vol. MBF 246,000 Vol. Cds. 99 Vol. Tons 350

**Plan Preparer**

Name Derek Beard  
Address 485 Ware Rd.  
  
Town, State, Zip Belchertown MA 01007  
Phone 617-780-0631  
Type of Preparer LF  
\*Mass. Forester License # 14  
\*Required for land under Ch61, Ch61A or Forest Stewardship

**Landowner**

Name DCR Div. of Water Supply Protection  
Mailing Address 485 Ware Rd  
  
Town, State, Zip Belchertown MA 01007  
Phone 413-323-6921  
Ch61  61A  61B  Stew  \*Case # \_\_\_\_\_  
FSC  CR  CR Holder \_\_\_\_\_

**Licensed Timber Harvester\*\***

Name \_\_\_\_\_  
Address \_\_\_\_\_  
Town, State, Zip \_\_\_\_\_ MA \_\_\_\_\_  
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	CU	FO	BR	
Existing Structure	Yes	No	No	
Type of Bottom	ST	GR	ST, MU	
Bank Height (ft)	2.00	0.50	1.00	
Stabilization	CO	CO	CO	

**Wetland Crossings**

Indicate location on map	WC-1	WC-2	WC-3	WC-4
Length of Crossing				
Mitigation				
Stabilization				

**Filter Strips**

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

No Heritage Impact.

Codes

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom	Note:
LF - Mass. Lic. For	CU - Culvert	SE - Seed	FE - Fencer	LI - Ledge	Applicator must provide DCR with all relevant information before plan may be approved and staking may begin.
TH - Lic. Tim. Har	BR - Bridge	MU - Mulch	DR - Dry	S2 - Stony	Some forestry activities, such as prescribed burning and pesticide or fertilizer application may require additional permits. Consult MA Forestry BMP Manual for further information.
DB - Timber Buyer	FO - Furd	CO - Corduroy	OT - Other	MU - Mud	
LO - Landowner	PO - Piled	ST - Stone		GR - Gravel	
OT - Other	OT - Other	IB - Hay Bales		OT - Other	

Forest Products

**Products to be Harvested\***

Species	Mbf/Cds		Mbf/Cds
White Pine	64,300	Red Maple	4,300
Red Pine	159,800	Sugar Maple	
Pitch Pine		Red Oak	2,300
Hemlock	1,300	Black Oak	0,900
Spruce		White Oak	0,400
Other Sftwd.		Other Hdw.	0,300
White Ash	6,000	<b>Total Mbf</b>	<b>246,000</b>
Beech		<b>Cordwood (Cds)</b>	<b>99,000</b>
White Birch		<b>SW Pulp (Tons)</b>	<b>350,000</b>
B & Y Birch	4,200	<b>HW Pulp (Tons)</b>	
Black Cherry	2,200	<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.

Stand Treatment

**Cutting Standards**

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	RP	RP	WP	
Acres	12,600	1,800	1,300	
Landowner Objective	LT	LT	LT	
Designation of Trees	CT	CT	CT	
Type of Cut	SA	SA	ST	
Source of Regeneration	AD,SE	AD,SE	AD,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.

*S. 11-21*  
(Sue Scam)

Signature of landowner(s)

Date

Service Forester

**Determination and Status**

	Approved	Disapproved	Expires
Cutting Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	08/12/2023
	<i>[Signature]</i>		08/30/2021
	Signature of Service Forester/Director's Agent		Date
Extension	1 <input type="checkbox"/>	2 <input type="checkbox"/>	Expires
	App 1 <input type="checkbox"/> Dis 1 <input type="checkbox"/> App 2 <input type="checkbox"/> Dis 2 <input type="checkbox"/>		Ser. For. Ints.
Amendment			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]* 11-29-22  
 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	CT Cut Tree	SH Shelterwood
WK WP/Hem	HM Hem/Hdw	LT Leave Tree	ST Seed Tree
WH WP/Hdw	BC BkCherry	SB Stand Boundary	CC Clear Cut
WO WP/Oak	BR Bee/Bio/Map	OT Other	SE Selection
RP Red Pine	OH Oak/Hdw	LT Long-term Mgt.	SA Salvage
SR Red Spruce	OR N Red Oak	ST Short-term Har.	SN Sanitation
	OM Mixed Oak		DL Diameter Limit*
	RM Red Maple		OT Other*
	BE Beech		AD Advanced
	SF Spruce/Fir		SE Natural Seed
	SM Sugar Maple		PL Plant
			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 pg 4 of 6

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 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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Signature of landowner(s)



8-11-2021

# 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 of Water Supply Prote

Town New Salem

File Number 204.32470.22

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.

Intent of project is to salvage remaining (alive) red pine which has been dying over the past decades due to scale infestation and associated needle casts/fungus. Secondary objective is to upgrade the quality of the residual white pine saw timber. Stand 3 has a specific goal of releasing advanced white pine regeneration and hopefully trigger additional white pine seedling germination. All timber to be harvested is marked with blue paint. Main skid roads are marked with orange paint.

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.

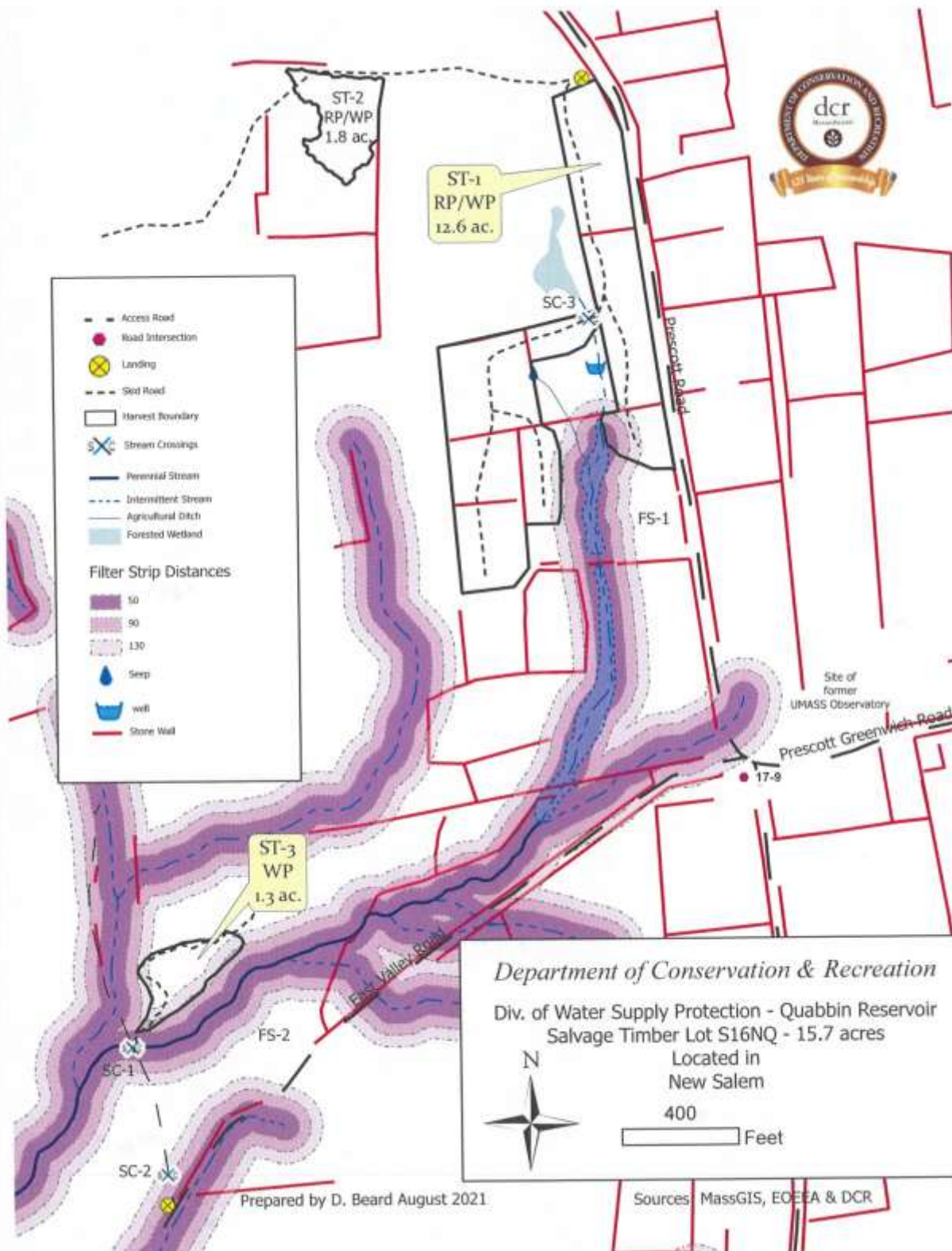
Stand No.	Describe Trees to be Cut			Describe Trees to be Left			% BA/AC	
	Species	Size	Quality	Species	Size	Quality	Cut	Left

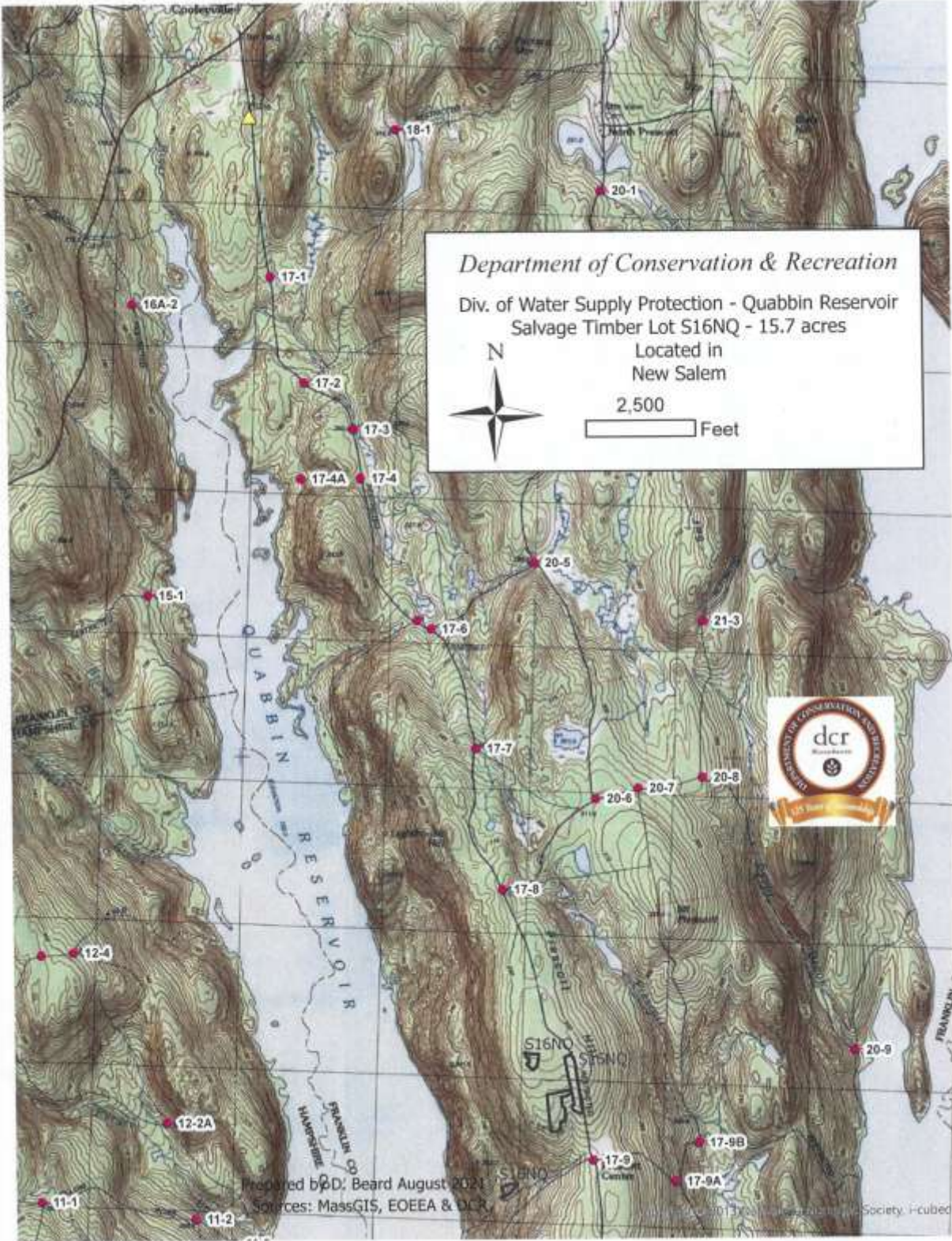
Regeneration & Future Condition

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.



Department of Conservation & Recreation  
 Div. of Water Supply Protection - Quabbin Reservoir  
 Salvage Timber Lot S16NQ - 15.7 acres  
 Located in  
 New Salem  
 2,500 Feet



Prepared by D. Beard August 2021  
 Sources: MassGIS, EOEEA & DCR

Massachusetts Department of Conservation and Recreation, i-cubed



DIVISION OF  
**FISHERIES & WILDLIFE**

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

Andrew Rawcliffe  
Department of Conservation and Recreation  
40 Cold Storage Drive  
Amherst, MA 01004

Cutting Plan No.	204-32470-22
NHESP Tracking No.	21-40457
Town	New Salem
Road	Cooleyville Rd, Gate 17
Landowner	DCR DWSP, Quabbin
Preparer	Derek Beard
Date	August 27, 2021

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 Rebekah Zimmerer at (508) 389-6354 or [Rebekah.zimmerer@mass.gov](mailto:Rebekah.zimmerer@mass.gov).

Sincerely,

A handwritten signature in cursive script that reads "Everose Schlüter".

Everose Schlüter, Ph.D.  
Assistant Director

Cc: New Salem Conservation Commission

MASSWILDLIFE

dcf



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

FILE # 204-32470-22

# 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 Div Watershed Protection 485 Lake Rd Bekentown, MA  
(Name of Owner) (Address) in accordance with the

provision of M.G.L. Chapter 132, Section 4D-46, filed in AMFO with the Dept. of Conservation  
and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the  
Cooksville Rd lot.

Approval Date 8:30-2-1  
Director's Agent Andrew Roushiffe  
DCR Phone No. 617-549-1677

ISSUED BY:

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

**Figure 2. Photo Point Pictures**

Pre-Harvest, September 2021



Post Harvest, December 2021



June 2025 (4 years of growth)

