

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

Project Title:

DWSP Harvest Permit Number: S17NQ

DWSP Proposal ID: PR-20-09

DCR Forest Cutting Plan File Number: 204-33630-22

Site Information

Watershed: Quabbin

Town(s): New Salem

Acres: 34

Nearest Road: Cooleyville

Natural Heritage Atlas overlap?: Yes

Public Drinking Water Supply Watershed?: Yes

Forest Types: Red Oak

ACEC?: No

Soils: Stony till with varying levels of sandy loam

Wetland Resources: None

Vernal Pools: 0

Harvest Information

Harvest Start Date: 12/1/2021

Harvest End Date: 12/15/2023

Number of Wetland Crossings: 0

Number of Stream Crossings: 3

Best Management Practices Applied

Stream Crossings: 3

Filter Strips: 4

Wetland Crossings: 0

Harvesting in Wetlands: 0

DWSP Forester supervising this harvest

Name: Derek Beard

Forester License #: 14

Phone #:

Email: derek.beard@mass.gov

NARRATIVE

General Description/Forest Composition/History:

Located on the Prescott Peninsula the area is accessed from Prescott Brook Rd (approx. 6 miles south of gate 17). Specifically, the project covers east and west facing slopes of a longitudinal ridge east of Prescott Brook.

The project is home to high canopy sawtimber oak (red, black, white and scarlet) the majority of which died from consecutive gypsy moth infestations (2017/18). The main associates are black birch, white ash, hickory and sugar maple. Regeneration consists of sapling/pole size black birch and white pine resulting from thinning in 1964 and 1995.

Prior to state ownership, much of the area was used as rough or semi-improved pasture associated with small scale farming; a common land use of the early 20th century Swift River valley.

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 and future users. In order 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 ideally suited to be resilient to and quickly recover from small to large scale disturbances such as disease, insect infestation, ice storms and hurricanes.

Silvicultural Objectives:

The main goal of the project is to salvage the dead oak having succumbed to consecutive years of intense gypsy moth caterpillar defoliation. Specifically, the project follows the pattern of mortality; such that there are uncut pockets due to the oak being alive and healthy or a change in species composition such as white pine or black birch (unaffected by gypsy moth). Furthermore, in areas of heavy mortality, oaks have been retained because they are healthy or have high wildlife value (cavity nesting/denning). In salvaging this resource, the stage will be set for a new forest to develop; with the hope it will be diverse/resilient enough to ward off the myriad issues affecting it today and in the future.

Cultural Resources:

With past agrarian use the area is home to a few stone walls.

Rare or Endangered Species:

Overlapping a habitat bubble, the project was reviewed by the MA Natural Heritage and Endanger Species program who determined that there could be a potential minor restriction.

FIGURES

Figure 1. Forest Cutting Plan

Figure 1a: Forest Cutting Plan pg. 1.

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) *Extension 1 (10/23)*

For DCR Use Only:

File Number	204.33630.22	Case No.	NA
Date Rec'd	11/18/2021	Nat. Hert.	True
Earliest Start	12/03/2021	Pub. Dr. Wat.	Yes
River Basin	Chicopee	ACEC	False
Gen. Obj.	LT		

Site Information	Location		Landowner	
	Town	New Salem	Name	DCR Div. of Water Supply Protection
	Road	Prescott Greenwich Rd	Mailing Address	485 Ware Rd.
	Acres	34.00	Town, State, Zip	Belchertown MA 01007
	Proposed Start Date	12/12/2021	Phone	413-323-6921
	Vol. MBF	149.600	Ch61 <input type="checkbox"/> 61A <input type="checkbox"/> 61B <input type="checkbox"/> Stew <input type="checkbox"/> *Case #	
	Vol. Cds.	282	FSC <input type="checkbox"/> CR <input type="checkbox"/> CR Holder	
	Vol. Tons	49	Licensed Timber Harvester**	
	Plan Preparer		Name	
	Name	Derek Beard	Address	
Address	485 Ware Rd	Town, State, Zip	MA	
Town, State, Zip	Belchertown MA 01007	Phone		
Phone	617-780-0631	Mass. Lic. Harvester #		
Type of Preparer	LF	**This information may be supplied after the plan is approved, but before work begins.		
*Mass. Forester License #	14			
*Required for land under Ch61, Ch61A or Forest Stewardship				

Best Management Practices	Stream Crossings					Harvesting in Wetlands				
	Indicate location on map	SC-1	SC-2	SC-3	SC-4	Indicate location on map	HW-1	HW-2	HW-3	HW-4
	Type of Crossing	BR	BR	CU		Forest Type (see pg 2)				
	Existing Structure	No	No	Yes		Acres to be Harvested				
	Type of Bottom	ST,GR	ST,MU	ST		Resid. Basal Area (>50%)				
	Bank Height (ft)	4.00	1.00	1.00		Service Forester Comments				
	Stabilization	CO	CO	CO		<i>Heritage Timing Restriction - See Attached!</i>				
	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	Va	Va						

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			

Figure 1b: Forest Cutting Plan pg. 2.

Products to be Harvested*			
Species	Mbf/Cds		Mbf/Cds
White Pine	10.100	Red Maple	9.300
Red Pine		Sugar Maple	0.800
Pitch Pine		Red Oak	94.100
Hemlock		Black Oak	9.500
Spruce		White Oak	0.200
Other Sftwd.		Other Hdwd.	6.000
White Ash	5.200	Total Mbf	149.600
Beech		Cordwood (Cds)	282.000
White Birch		SW Pulp (Tons)	49.000
B & Y Birch	14.400	HW Pulp (Tons)	
Black Cherry		Chips (Tons)	

*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	OM	OR	OR	OR
Acres	3.000	17.000	2.000	12.000
Landowner Objective	LT	LT	LT	LT
Designation of Trees	CT	CT	CT	CT
Type of Cut	SA	SA	SA	SA
Source of Regeneration	A,D,SE,C	D,SE,C	D,SE,C	D,SE,C

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.

11-16-21
 (for SCOM)

12/14/2021
 Date

Signature of landowner(s)

Determination and Status

Approved Disapproved Expires 11/18/2023

Cutting Plan 11/18/2023

Signature of Service Forester/Director's Agent *[Signature]* Date 12-14-21

Extension 1 2 Expires 11-18-24 Sent For. Ints. *[Initials]*

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 *[Signature]* 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 Blek 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	LT Long-term Mgt.
SR Red Spruce	OR N Red Oak	PP Pitch Pine	ST Short-term Har.
			SH Shelterwood
			ST Seed Tree
			CC Clear Cut
			SE Selection
			SA Salvage
			SN Sanitation
			Intermediate Harvests:
			CT Commercial Thin
			NT Non Com Thin
			Non-Standard Systems:*
			HG Highgrade*
			DL Diameter Limit*
			OT Other*
			AD Advanced
			SE Natural Seed
			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

Figure 1c: Forest Cutting Plan pg 3.

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.

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 speciality 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 aware of my (out) 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 are 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.

Signature of landowner(s)



11-16-2021

Figure 1d: Forest Cutting Plan pg. 4.

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 204.33630.22

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.

This is an oak salvage project resulting from a 2017 gypsy moth infestation. 75% of the project's oak volume is dead. Trees to be harvested are marked with blue paint. Main skid roads are marked in orange paint. Retention and wildlife trees are marked in red 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

Figure 1e: Forest Cutting Plan pg. 5.

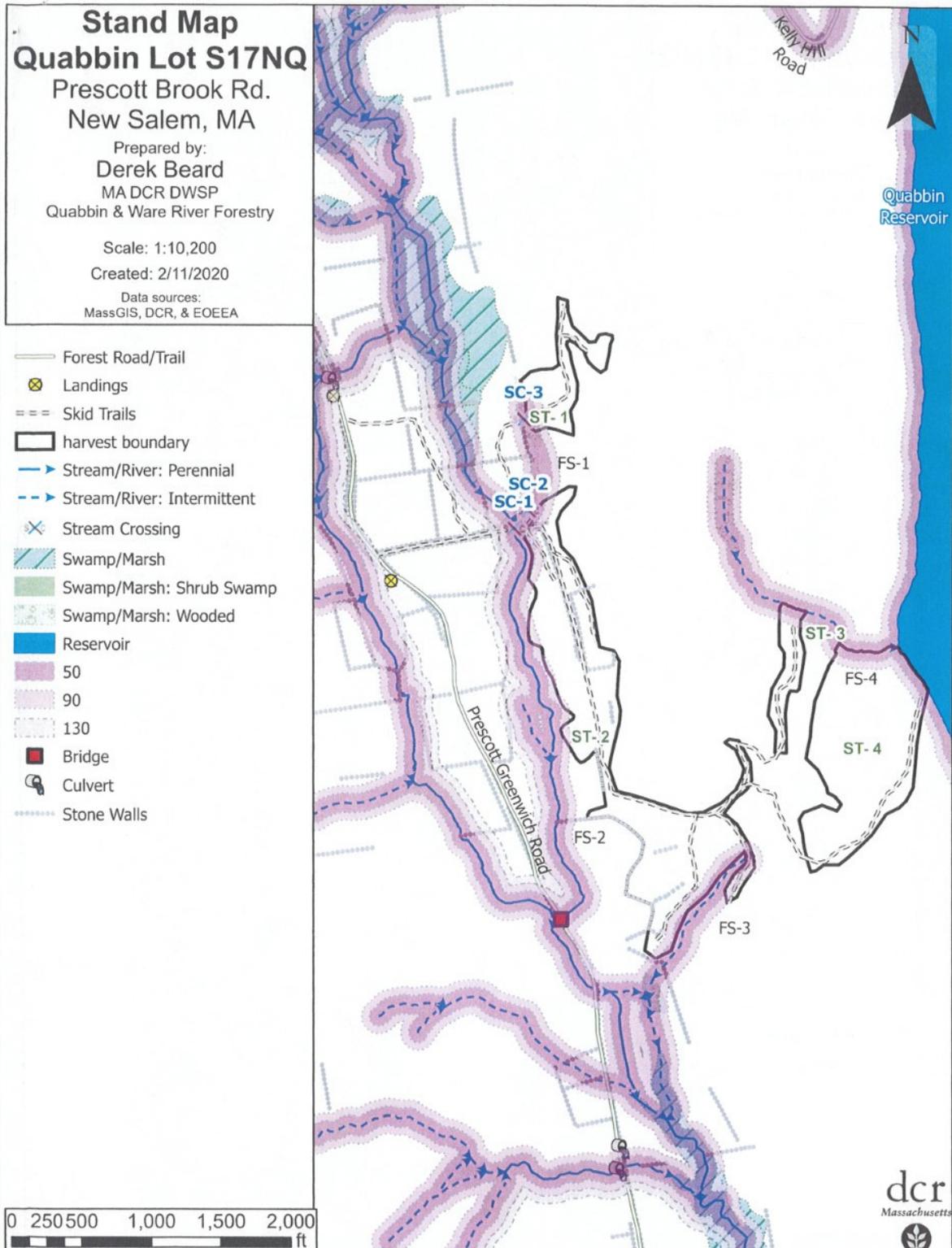


Figure 1f: Forest Cutting Plan pg. 6

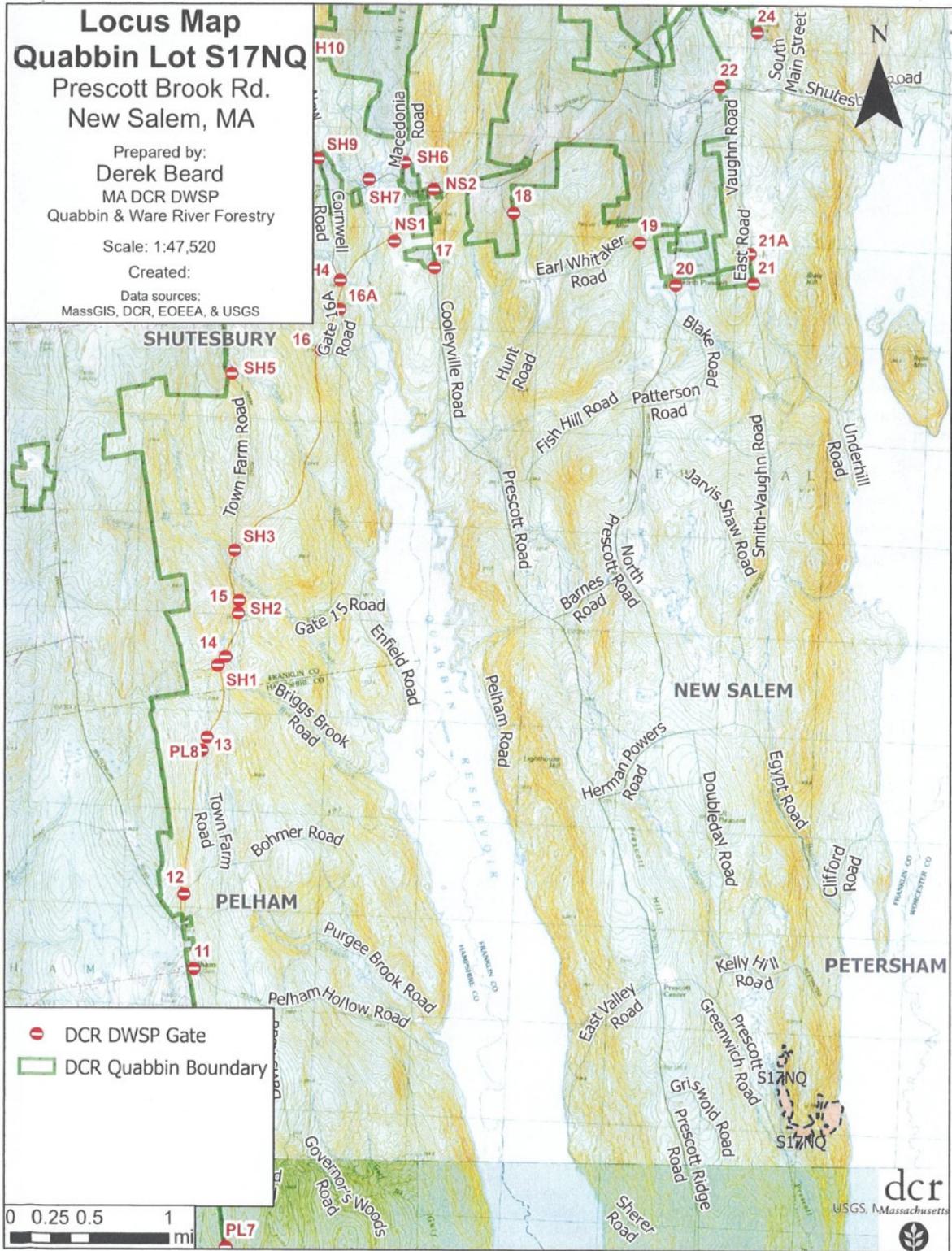


Figure 1g: Forest Cutting Plan pg. 7

DCR



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

FILE # 204-33630-22

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-DWSP (Name of Owner) 485 Ware Rd (Address) Belchertown, MA 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

Quabbin S17NG (Prescott Brook Rd) (lot.)

Approval Date 12/14/21
Director's Agent Andrew Rawcliffe
DCR Phone No. 617-549-1677

ISSUED BY:

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