

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

Project Title: The Hillside School
DWSP Harvest Permit Number: S17NQ
DWSP Proposal ID: PR-20-09-S
DCR Forest Cutting Plan File Number: 204-33630-22

Site Information

Watershed: Quabbin
Town(s): New Salem
Acres: 34
Nearest Road: Prescott/Cooleyville & Prescott Brook
Natural Heritage Atlas overlap?: Yes
Public Drinking Water Supply Watershed?: Yes
Forest Types: Red Oak
Area of Critical Environmental Concern (ACEC)?: No
Soils: Chatfield-Hollis complex
Wetland Resources: No
Vernal Pools: No

Harvest Information

Harvest Start Date: January 24,2023
Harvest End Date: February 8 2024
Number of Wetland Crossings: 0
Number of Stream Crossings: 3

Best Management Practices Applied

Stream Crossings: Temporary skid bridges
Filter Strips: Four variable width
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

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 which succumbed to consecutive years of intense Spongy 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

Stone walls are the predominant cultural resource.

Rare or Endangered Species

Overlapping a habitat bubble, the project was reviewed by the MA Natural Heritage and Endanger Species program who required a buffer zone along the reservoir shoreline and autumn/winter harvesting in this vicinity.

Figures

1. Figure 1. Forest Cutting Plan

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) *Extension 1 (10/23)*

For DCR Use Only:

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

Location *FINAL (2/24)*

Town New Salem
 Road Prescott Greenwich Rd
 Acres 34.00 Proposed Start Date 12/12/2021
 Vol. MBF 149,600 Vol. Cds. 282 Vol. Tons 49

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.

Stream Crossings

Indicate location on map	SC-1	SC-2	SC-3	SC-4
Type of Crossing	BR	BR	CU	
Existing Structure	No	No	Yes	
Type of Bottom	ST,GR	ST,MU	ST	
Bank Height (ft)	4.00	1.00	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	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%2)				

Service Forester Comments

Heritage Timing Restriction - See Attached!

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 Slony	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	

If Other (OT) is used in any category an explanation must be given on an attached narrative page pg 3 of 6

Site Information

Best Management Practices

Codes

Forest Products

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.

Stand Treatment

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	D,SE,C	D,SE,C	D,SE,C	D,SE,C

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.

*11-169-21
(over 500m)*

12/14/2021

Signature of landowner(s)

Date

Service Forester

Determination and Status

Approved Disapproved Expires 11/18/2023

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

Extension 1 2 Expires 11-18-24 See For. Ints. AK

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 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 Hens/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	<u>Landowner Objective</u>
SR Red Spruce	OR N Red Oak	PP Pitch Pine	LT Long-term Mgt.
			ST Short-term Har.

*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.

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

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

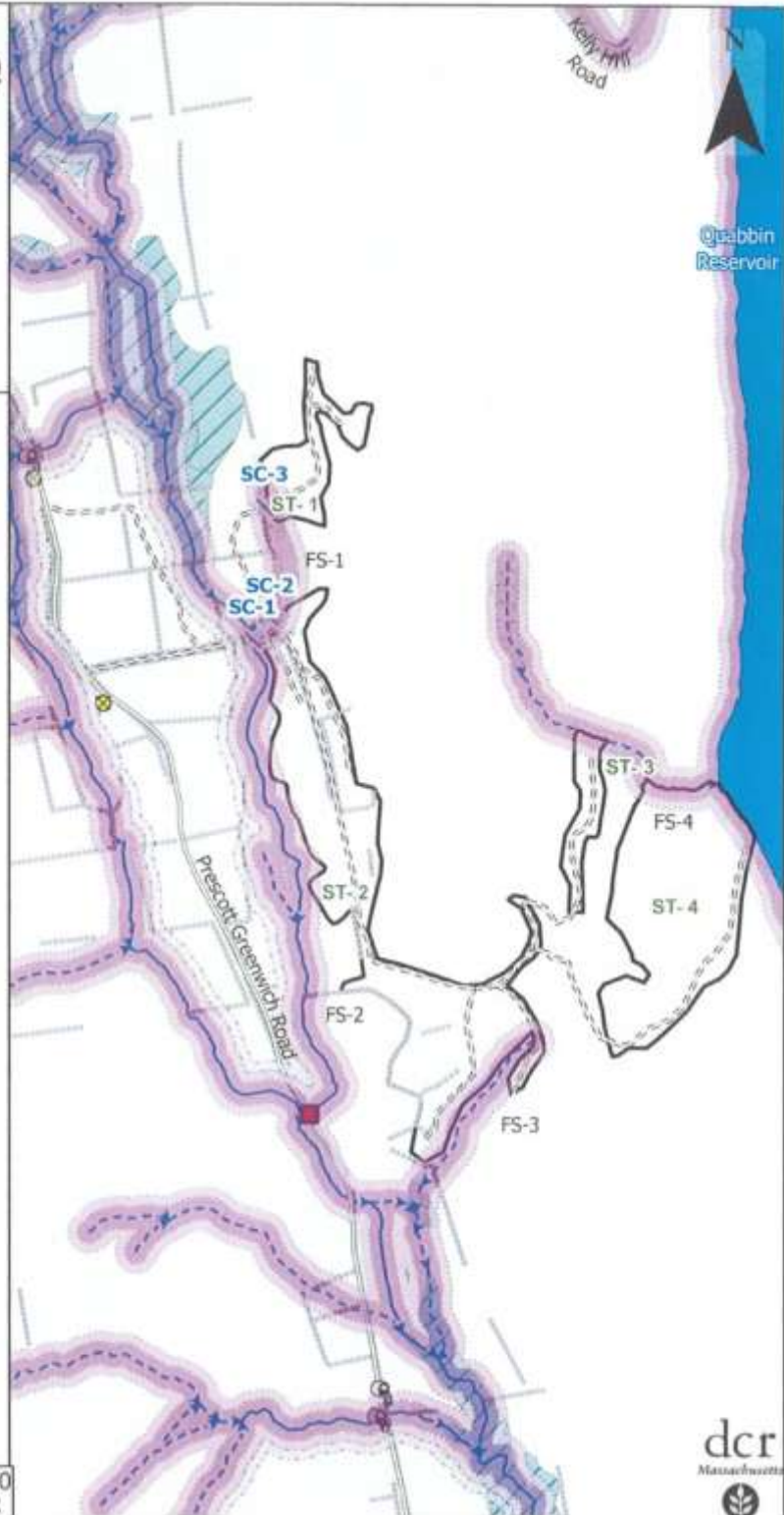
Stand Map
Quabbin Lot S17NQ
 Prescott Brook Rd.
 New Salem, MA

Prepared by:
Derek Beard
 MA DCR DWSP
 Quabbin & Ware River Forestry

Scale: 1:10,200
 Created: 2/11/2020

Data sources:
 MassGIS, DCR, & EOEEA

- Forest Road/Trail
- Landings
- Skid Trails
- harvest boundary
- Stream/River: Perennial
- Stream/River: Intermittent
- Stream Crossing
- Swamp/Marsh
- Swamp/Marsh: Shrub Swamp
- Swamp/Marsh: Wooded
- Reservoir
- 50
- 90
- 130
- Bridge
- Culvert
- Stone Walls



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 485 Ware Rd Belchertown, MA 01007 in accordance with the
(Name of Owner) (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

Quabbin 517NA lot.
(Prescott Brook Rd)

Approval Date 12/14/21

Director's Agent Andrew Rawcliffe

DCR Phone No. 617-549-1677

ISSUED BY:

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