

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

Project Title: Juckett Hill East
DWSP Harvest Permit Number: 1065
DWSP Proposal ID: PE-22-2
DCR Forest Cutting Plan File Number: 024-43059-25

Site Information

Watershed: Quabbin
Town(s): Belchertown
Acres: 53
Nearest Road: Juckett Hill Road
Natural Heritage Atlas overlap: No
Public Drinking Water Supply Watershed: Yes
Forest Types: White Pine-Oak
Area of Critical Environmental Concern (ACEC): No
Soils: Gravelly fine sandy loam and rock outcrop
Wetland Resources: No
Vernal Pools: No

Harvest Information

Harvest Start Date: TBD
Harvest End Date: TBD
Number of Wetland Crossings: None
Number of Stream Crossings: None

Best Management Practices Applied

Stream Crossings: N/A
Filter Strips: One of variable width. No harvesting of trees within the filter strip.
Wetland Crossings: N/A
Harvesting in Wetlands: N/A

DWSP Forester supervising this harvest

Name: Douglas Hutcheson
Forester License number: 375
Phone number: (413) 323-6921
Email: douglas.hutcheson@mass.gov

Narrative

General Description/Forest Composition/History

The forest surrounding Juckett Hill is generally a closed canopy, even aged forest. The soils are well to moderately well-drained fine, sandy loams along with an area of outcrop soils found to the southeast and downhill from the height of land, 1070 feet. The most prevalent canopy species are red, black, scarlet and white oak, along with white pine. Red maple, hickory, black and white birch, and hemlock are also present. Topography is mostly mild with occasional steep sections which will be worked conservatively or avoided depending on severity.

Site Selection

Historical impacts by Spongy Moth highlight the need to diversify the vertical structure and species composition that is currently present. Timber harvests were conducted in 1981, 1983, and 1986 after the outbreak of the late 70s and early 80s to salvage spongy moth killed oaks. The area was again impacted by the moth from 2015-2020 resulting in heavy mortality of canopy oaks. Emerald ash borer, (*Agrilus planipennis*) arrived at the end of 2019 and many ash trees were showing decline by the fall of 2020. Stagnant growth of canopy white pine has been observed due to white pine needle cast disease, which hinders photosynthetic capacity. Stagnant growth and mortality of white pine regeneration have also occurred, most likely from fungi and cankers. Droughts in 2015-2016, and fall of 2020, further reduced growth in all species of trees, both in the canopy, the midstory, and the seedling and sapling layer.

Silvicultural Objectives

Oak and pine are the two keystone species in the watershed forest surrounding the Quabbin Reservoir. The primary silvicultural objective is to encourage establishment and growth of a more diverse suite of trees, woody shrubs, and herbaceous plants. Where soil and moisture conditions are better suited to tree growth, small openings will be established (openings 0.5 to 2.0 acres in size) with thinning between those openings.

Cultural Resources

Numerous foundations and stone walls are present. Cultural resources are reviewed by DCR cultural resource staff and recommendations for their protection are followed.

Rare or Endangered Species

There are no NHESP habitats in the treatment area. Moose and deer browsing is evident. Bear, turkey, grouse, and coyote are also known to use this area.

Figures

Figure 1. Final Forest Cutting Plan

Figure 2: Pre-Harvest Photographs

Figure 1. Final Forest Cutting Plan

RECEIVED JAN - 6 2025
(REVISIONS)

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)

(OT)

For DCR Use Only:
File Number 624-43059-25 Case No. N/A
Date Rec'd 11/13/24 Nat. Hert. No
Earliest Start 11/29/24 Pub. Dr. Wat. Quabbin
River Basin Chicopee ACEC No
Gen. Obj. LT

Site Information

Location
Town Belchertown
Road Juckett Hill Road
Acres 52.8 Proposed Start Date TBD
Vol. MBF 98.3 Vol. Cds. 158 Vol. Tons 105

Plan Preparer
Name Douglas Hutcheson DCR-DWSP Forester
Address 485 Ware Road
Town, State, Zip Belchertown, MA 01007
Phone (413) 237-9713
Type of Preparer Licensed Forester
*Mass. Forester License # 375
*Required for land under Ch61, Ch61A or Forest Stewardship

Landowner
Name MA DCR-DWSP
Mailing Address 485 Ware Road
Town, State, Zip Belchertown, MA 01007
Phone 4133236921
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				
Mitigation				
Stabilization				

Filter Strips

Indicate location on map	FS-1	FS-2	FS-3	FS-4
Width (50', 100', or 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
Main access will likely be north through gate 8.

Codes

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom	Note:
LF Mass Lic. Per.	CU Culvert	SE Seed	FR Frozen	LE Lodge	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.
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 Piled	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

Forest Products

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	58.2	Red Maple	.5
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	31.8
Hemlock	1.1	Black Oak	5.7
Spruce		White Oak	.2
Other Sftwd.		Other Hdwd.	
White Ash		Total Mbf	98.3
Beech		Cordwood (Cds)	158
White Birch		SW Pulp (Tons)	105
B & Y Birch	.8	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	WO ☒	WO ☒	WO ☒	
Acres	35.0	12.2	5.6	
Landowner Objective	LT	LT	LT	
Designation of Trees	CT ☒	CT ☒	CT ☒	
Type of Cut	SH ☒	CC ☒	SE ☒	
Source of Regeneration	AD ☒	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 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)

12-18-2024

Date

Service Forester

Determination and Status

Approved Disapproved Expires

Cutting Plan ☒ ☐ 11/13/26
Signature of Service Forester/Director's Agent 11/8/25
DateExtension 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 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	FB 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		OI 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 Belchertown

File Number 024-43059-25

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.

Stand 2 is comprised of four individual openings: 2.0, 2.4, 3.6, and 4.2 acres, totaling 12.2 acres. The silvicultural system to be used in these openings is a clearcut with retention. The retained canopy trees within the openings are vigorous, well formed white pine, and red, white, black, and scarlet oak stems, with full canopies prioritized for their seed and mast bearing capacity. Scattered chestnut oak, white and yellow birch, sugar maple, hemlock, and hickory stems are also being retained for species diversity. Where present, large diameter, large limbed, wolf trees will be retained as legacy trees and for wildlife habitat. The future stands that result from these small patch cuts will achieve DWSP's overarching goals of creating an uneven age forest with diverse vertical structure and diverse species across the Quabbin watershed.

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

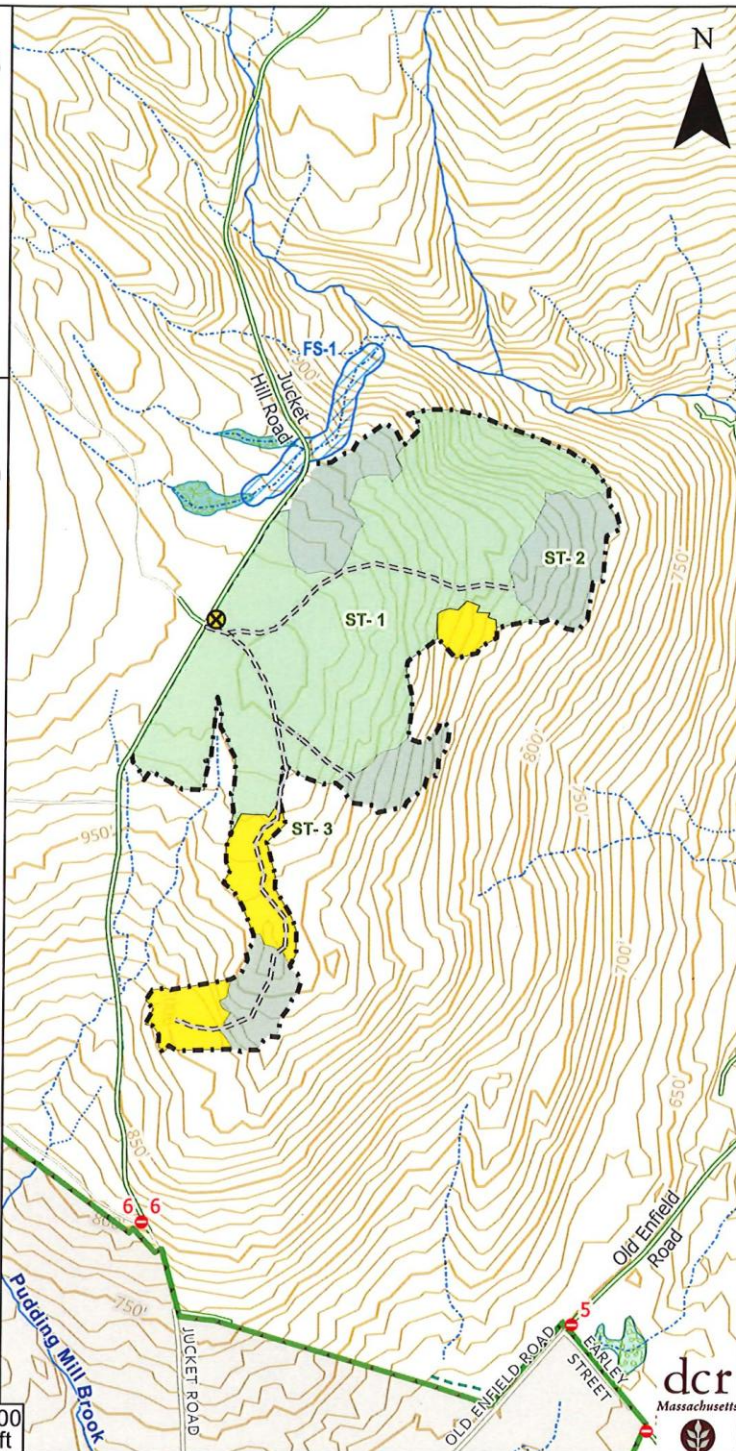
Stand Map DCR DWSP Lot 1065

Juckett Hill Road
Belchertown

Prepared by:
Douglas Hutcheson
MA DCR DWSP
Quabbin & Ware River Forestry
1:12,000
1" = 1,000'
12/17/2024
Data sources:
MassGIS, DCR, & EOEEA

- Town Boundary
- Minor Street
- Quabbin Reservoir Reservation
- DCR DWSP Gate
- Forest Road/Trail
- Other DCR Road
- Filter Strips
- Forested Swamp/Marsh
- Stream/River: Perennial
- Stream/River: Intermittent
- Stream/River: Ephemeral
- Canal/Ditch
- Landings
- Skid Trails
- ST-1
- ST-2
- ST-3
- harvest boundary

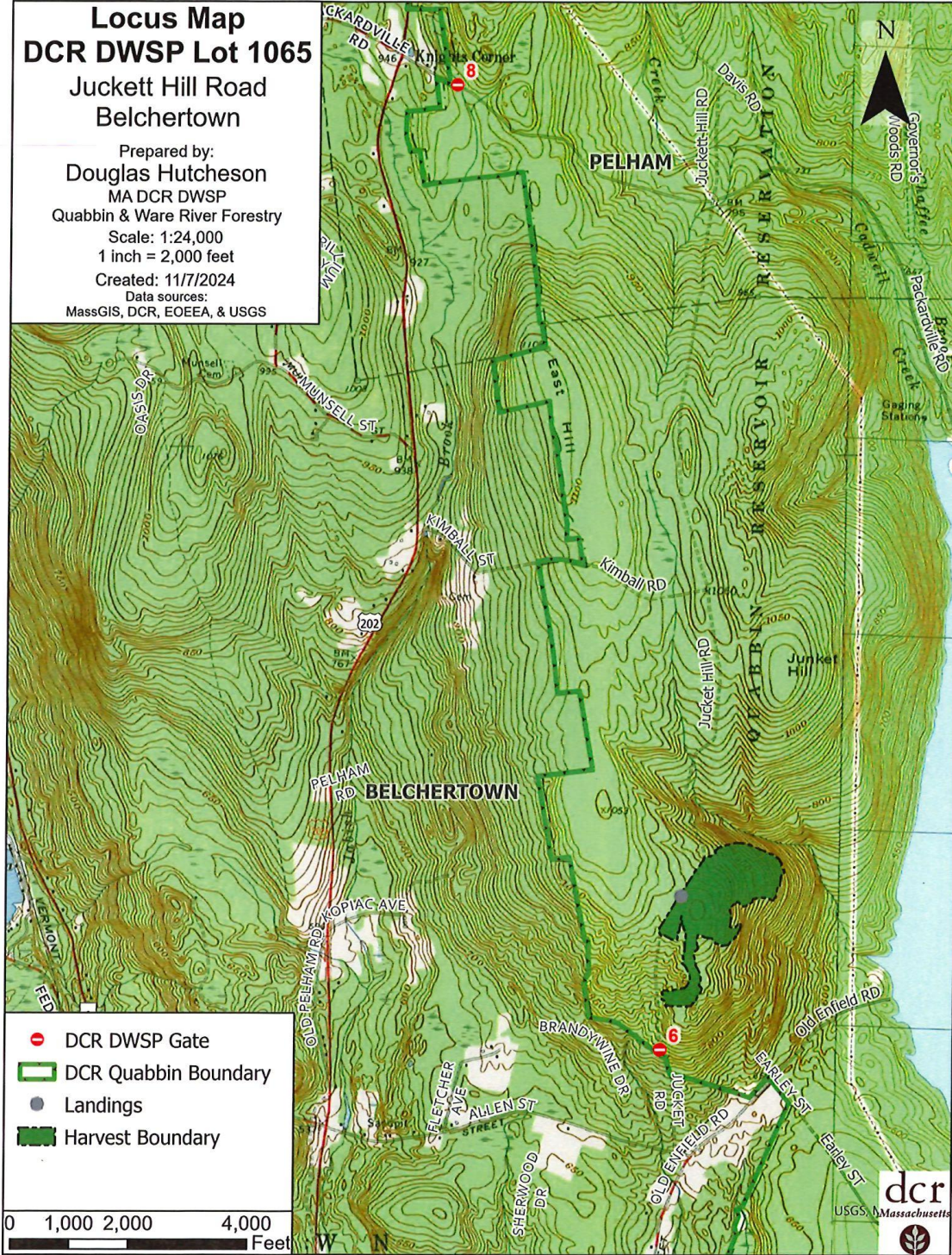
0 250 500 1,000 1,500 2,000
ft



Locus Map
DCR DWSP Lot 1065

Juckett Hill Road
Belchertown

Prepared by:
Douglas Hutcheson
MA DCR DWSP
Quabbin & Ware River Forestry
Scale: 1:24,000
1 inch = 2,000 feet
Created: 11/7/2024
Data sources:
MassGIS, DCR, EOEAA, & USGS



dc



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

FILE # 024-4305A-25

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 MA DCR-DWSP 485 Ware Rd
(Name of Owner) (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

"1065" lot.
(Jacket # 1111 12)

Approval Date 1/8/25

Director's Agent Jacob Macko

DCR Phone No. (857) 202-2824

ISSUED BY:

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

Figure 2: Pre-Harvest Photographs

1065-1



1065-2

