

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

Project Title: Brigham Rd Red Pine

DWSP Harvest Permit Number: 4407
DCR Forest Cutting Plan File Number: 021-33602-22

Site Information

Watershed: Ware River Watershed	Town(s): Barre and Hubbardston
Acres: 5.1	Nearest Road: Brigham Rd
Natural Heritage Atlas overlap?: No	Public Drinking Water Supply Watershed?: Yes
Forest Types: Red Pine, White Pine	ACEC¹?: No
Soils: 253 B & C, Hinckley loamy sand	
Wetland Resources: The harvest area is adjacent to the east branch of the Ware River and associated wetlands. There is also a small pond adjacent to the harvest area.	
Vernal Pools present or within 200 feet of harvest : Yes, outside of harvest but within 200 feet.	

Harvest Information

Harvest Start Date: After 1/1/22	Harvest End Date: Before 12/15/2023
Number of Wetland Crossings: None	Number of Stream Crossings: None

Best Management Practices Applied

Stream Crossings	There are no stream crossings.
Filter Strips	There is no harvesting in a filter strip.
Wetland Crossings	There are no wetland crossings.
Harvesting in Wetlands	There is no harvesting in wetlands.

DWSP Forester supervising this harvest
Name: Ken Canfield
Forester License # 431
Phone #: 857-274-7090
Email: kenneth.canfield@mass.gov

¹ACEC: Area of Critical Environmental Concern

NARRATIVE

General Description/Forest Composition/History:

The harvest area is located in the town of Barre between west of Brigham Rd adjacent to the east branch of the Ware River. The landing is in the town of Hubbardston, just off of Brigham Rd. It consists of 4.9 acres of red pine plantation and 0.2 acres of white pine.

Tree species present in the overstory are red pine, white pine, red, black, and white oaks, red maple, black cherry, and eastern hemlock. The understory consists of eastern white pine, red and white oak, red maple, black birch, American beech, eastern hemlock and black cherry.

Glossy buckthorn is abundant, particularly adjacent to the river. Some stems were hand pulled during tree marking.

The soils are excessively drained.

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. A healthy and resilient forest is comprised of diverse native tree and shrub species and multiple age classes of trees.

This harvest area was chosen because it is a mature red pine plantation.

Silvicultural Objectives:

The harvest will remove the mature overstory red pine before it succumbs to red pine scale and release the diverse regeneration below. The goal is to give the young native trees enough sunlight to out-compete the invasive glossy buckthorn shrubs that are well established.

Cultural Resources:

Standard practice dictates that every effort is made to avoid disturbing stone walls and other cultural resources.

Wildlife/Rare or Endangered Species:

Natural Heritage Endangered Species Program (NHESP) does not show any rare habitat within the harvest area.

FIGURES

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)

For DCR Use Only:

File Number 021-33602-22 Case No. _____

Date Rec'd 10-28-21 Nat. Hert. N

Earliest Start 11-15-21 Pub. Dr. Wat. Y

River Basin CHICOPEE ACEC N

Gen. Obj. L1

Location

Town Barre

Road Brigham Rd

Acres 5.1 Proposed Start Date 12/21

Vol. MBF 123.1 Vol. Cds. 3 Vol. Tons 121

Plan Preparer

Name Kenneth W. Canfield

Address 578 Old Turnpike Rd

Town, State, Zip Oakham, MA 01068

Phone (857) 274-7090

Type of Preparer LF

*Mass. Forester License # 431

*Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name DCR Division 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 _____

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				
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)				

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

• PLEASE NOTIFY DCR SERVICE FORESTER AT START OF HARVEST OPERATION

• PLAN APPROVAL DELAYED DUE TO PLAN PREPARER REVISIONS

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. 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 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

Forest Products

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	4.3 Mbf	Red Maple	2 Cds
Red Pine	118.7 Mbf	Sugar Maple	
Pitch Pine		Red Oak	
Hemlock		Black Oak	
Spruce		White Oak	
Other Sftwd.		Other Hdwd.	
White Ash		Total Mbf	123.1
Beech		Cordwood (Cds)	3
White Birch		SW Pulp (Tons)	121
B & Y Birch	1 Cd	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	RP	WP		
Acres	4.9	0.2		
Landowner Objective	LT	LT		
Designation of Trees	CT	CT		
Type of Cut	CC	CT		
Source of Regeneration	SE	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.

Dan Clark

Clark
 Date: 2021.10.28 07:45:49
 -04'00'

10/28/2021

Signature of landowner(s)

Date

Service Forester

Determination and Status 021-33602-2a **Final Report and Comments**

Approved Disapproved Expires

Cutting Plan 10/28/23

[Signature] 12/20/21
 Signature of Service Forester/Director's Agent Date

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

Extension 1 2 Expires / Ser. For. Ints. /

Amendment App 1 Dis 1 App 2 Dis 2 /

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	AD	Advanced
WK	WP/Hem	HH	Hem/Hdwd	RM	Red Maple	LT	Leave Tree	ST	Seed Tree	CT	Commercial Thin
WH	WP/Hdwd	BC	Blck Chery	BE	Beech	SB	Stand Boundary	CC	Clear Cut	NT	Non Com Thin
WO	WP/Oak	BB	Bee/Bir/Map	SF	Spruce/Fir	OT	Other	SE	Selection	NS	Non-Standard Systems*
RP	Red Pine	OH	Oak/Hdwd	SM	Sugar Maple	LO	Landowner Objective	SA	Salvage	HG	Highgrade*
SR	Red Spruce	OR	N Red Oak	PP	Pitch Pine	LT	Long-term Mgt.	SN	Sanitation	DL	Diameter Limit*
						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 pg 4 of 5

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 Barre

File Number 021-33602-22

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.

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



**Locus Map
Ware River Lot # 4407
MA DCR DWSP**

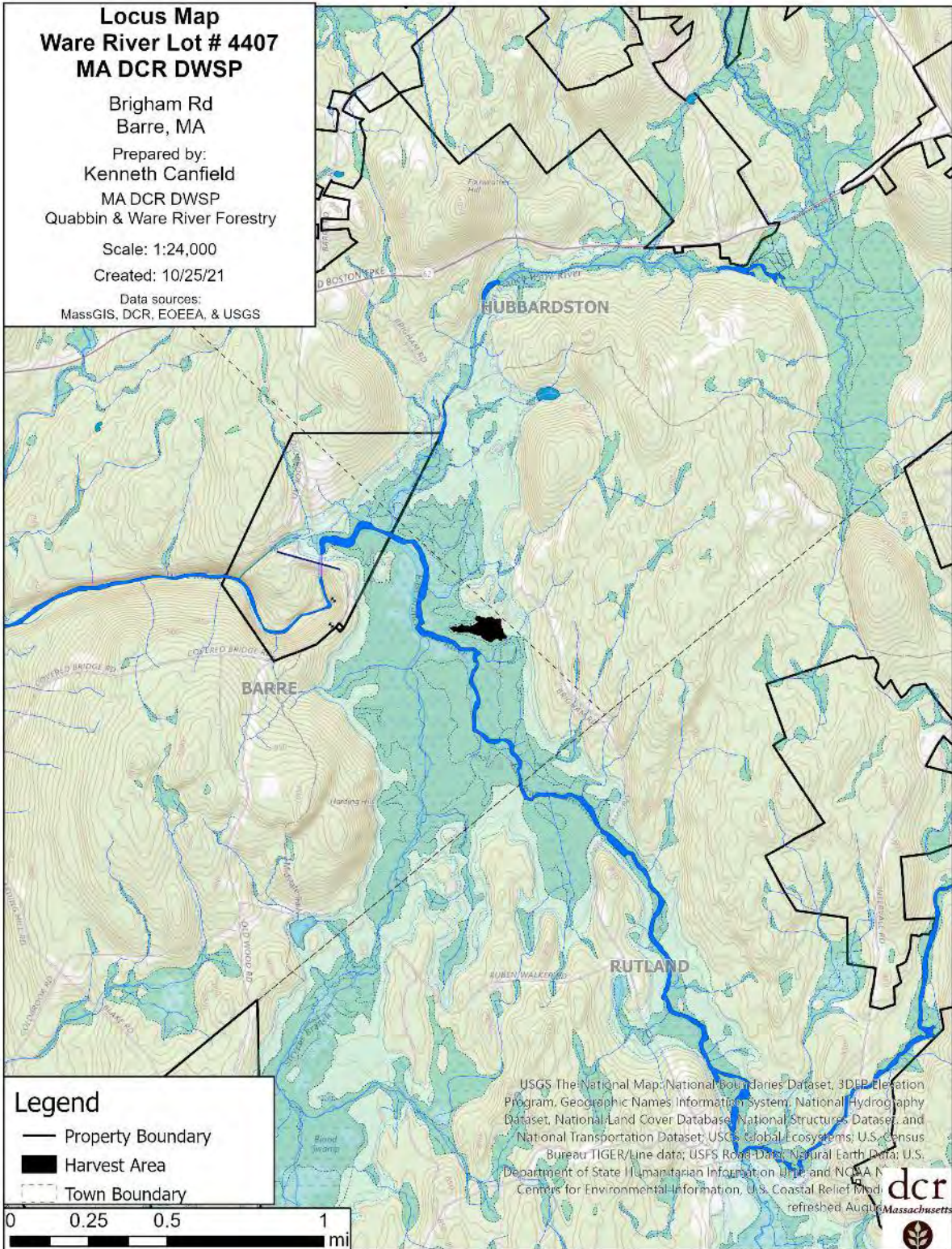
Brigham Rd
Barre, MA

Prepared by:
Kenneth Canfield
MA DCR DWSP
Quabbin & Ware River Forestry

Scale: 1:24,000

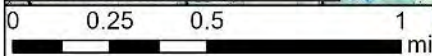
Created: 10/25/21

Data sources:
MassGIS, DCR, EOEEA, & USGS



Legend

- Property Boundary
- Harvest Area
- - - Town Boundary



USGS The National Map; National boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System; National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model
refreshed August 2021



dcr



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

FILE # 021.33602 - 22

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
(Name of Owner) (Address) BELCHERTOWN, MA 01007 in accordance with the

provision of M.G.L. Chapter 132, Section 40-46, filed in CLINTON with the Dept. of Conservation
and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the

BRIGHAM lot.
RD

Approval Date 12/20/21

Director's Agent CHRIS CAPONE

DCR Phone No. (857) 406-0175

ISSUED BY:

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