

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

Project Title: Harding Hill Young Forest 1

DWSP Harvest Permit Number: 4406
DCR Forest Cutting Plan File Number: 021-32475-22

Site Information

Watershed: Ware River Watershed	Town(s): Barre
Acres: 13	Nearest Road: Coldbrook Rd
Natural Heritage Atlas overlap?: No	Public Drinking Water Supply Watershed?: Yes
Forest Types: White Pine/Oak	ACEC¹?: No
Soils: 910C Woodbridge-Paxton and 902E Charlton-Paxton	
Wetland Resources: Several unnamed intermittent streams and associated wetlands are adjacent to the harvest area.	
Vernal Pools present or within 200 feet of harvest : No	

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 Coldbrook Rd and Harding Hill Rd. It consists of a white pine/oak stand.

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

Glossy buckthorn and Japanese barberry are present but not well established in the harvest area. Some stems were hand pulled during tree marking.

The soils are well drained to moderately well 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.

The harvest consists of a 13 acre clearcut in a white pine/oak stand. The harvest is located in the Ware River Watershed Young Forest Focus Area as described on page 120 of DWSP 2017 Comprehensive Land Management Plan (CLMP).

This harvest was proposed to be the first early successional block created in the focus area. However, a gypsy moth infestation affected this area in 2018. Patches of overstory oak trees were left dead or damaged. A salvage harvest was sold and has recently been completed.

This harvest abuts the recently completed salvage harvest. It will expand the early successional habitat that was created by that harvest and the mortality event. The harvest directly abuts a 1.0 acre patch opening (labelled "ST-0" on the FCP Stand Map) that was created by the salvage harvest, effectively turning this 13 acre clearcut into a 14 acre clearcut.

Silvicultural Objectives:

The harvest will have the following benefits:

This harvest will create early successional habitat that will be utilized by many wildlife and plant species. This habitat will complement the existing early successional habitat created by the gypsy moth salvage harvest. Future harvests in the area will complement the habitat created by this harvest.

This harvest will result in a fully regenerated stand that will be free to grow for the foreseeable future. Approximately 5 square feet of basal area per acre of overstory trees will be retained for seed and structure. Most of the retention trees are dominant, well formed, vigorous oaks, hickories, and white pines. Trees with large cavities were also retained. Standing dead trees will be retained where possible.

With existing regeneration, sprouts, and seedlings to be established there should be ample regeneration within a few years. No further silvicultural entries will be required for decades, which will allow skid trails to heal and will reduce any potential environmental impacts.

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 021.32475.22 Case No. _____

Date Rec'd 8/11/21 Nat. Hert. N

Earliest Start 8/25/21 Pub. Dr. Wat. Y

River Basin CHICOPEE ACEC N

Gen. Obj. LT

Location

Town Barre

Road Coldbrook Rd

Acres 13 Proposed Start Date 9/21

Vol. MBF 107.8 Vol. Cds. 205 Vol. Tons 188

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)	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

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	47.3 Mbf	Red Maple	5.8 Mbf
Red Pine		Sugar Maple	0.9 Mbf
Pitch Pine		Red Oak	44.0 Mbf
Hemlock		Black Oak	2.2 Mbf
Spruce		White Oak	0.9 Mbf
Other Sftwd.		Other Hdwd.	2.0 Mbf
White Ash	4.2 Mbf	Total Mbf	107.8
Beech		Cordwood (Cds)	205
White Birch		SW Pulp (Tons)	
B & Y Birch	0.6 Mbf	HW Pulp (Tons)	
Black Cherry		Chips (Tons)	188

*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			
Acres	13.0			
Landowner Objective	LT			
Designation of Trees	CT			
Type of Cut	CC			
Source of Regeneration	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
 Digitally signed by Dan Clark
 Date: 2021.08.11 08:39:21 -04'00'

8/11/2021
 Date

Signature of landowner(s)

Service Forester

Determination and Status

Approved Disapproved Expires 8/11/23

Cutting Plan 8/24/21

Signature of Service Forester/Director's Agent _____ Date _____

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

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 _____ 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	HI	Hem/Hdwd	RM	Red Maple	LT	Leave Tree	ST	Seed Tree	CT	Commercial Thin	SE	Natural Seed
WH	WP/Hdwd	BC	Black Cherry	BE	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	Santation	DL	Diameter Limit*	OT	Other
						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 021.32475.22

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

MA DCR DWSP

Lot 4406 Young Forest Focus Area

Coldbrook Rd in Barre FCP

Stand 1 Narrative:

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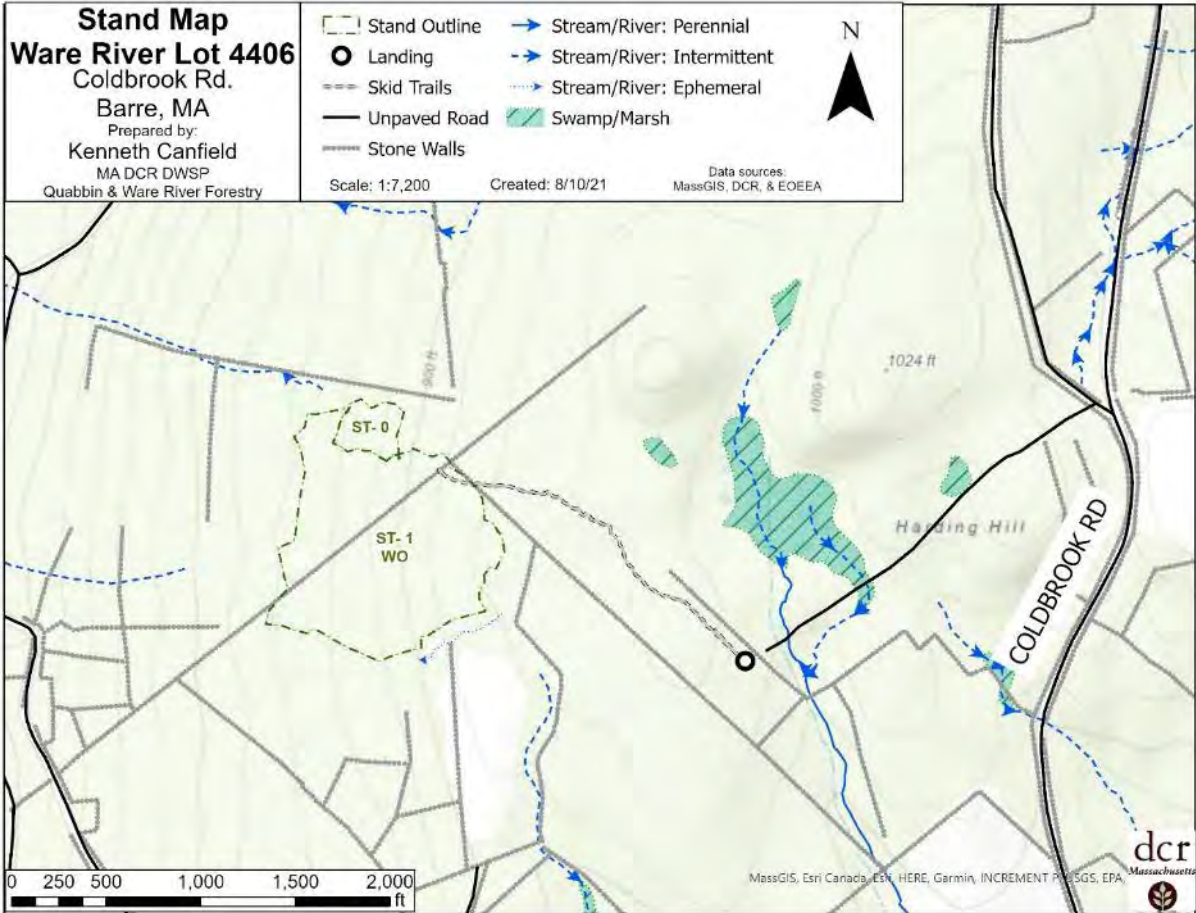
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**Locus Map
Ware River Lot # 4406
MA DCR DWSP**

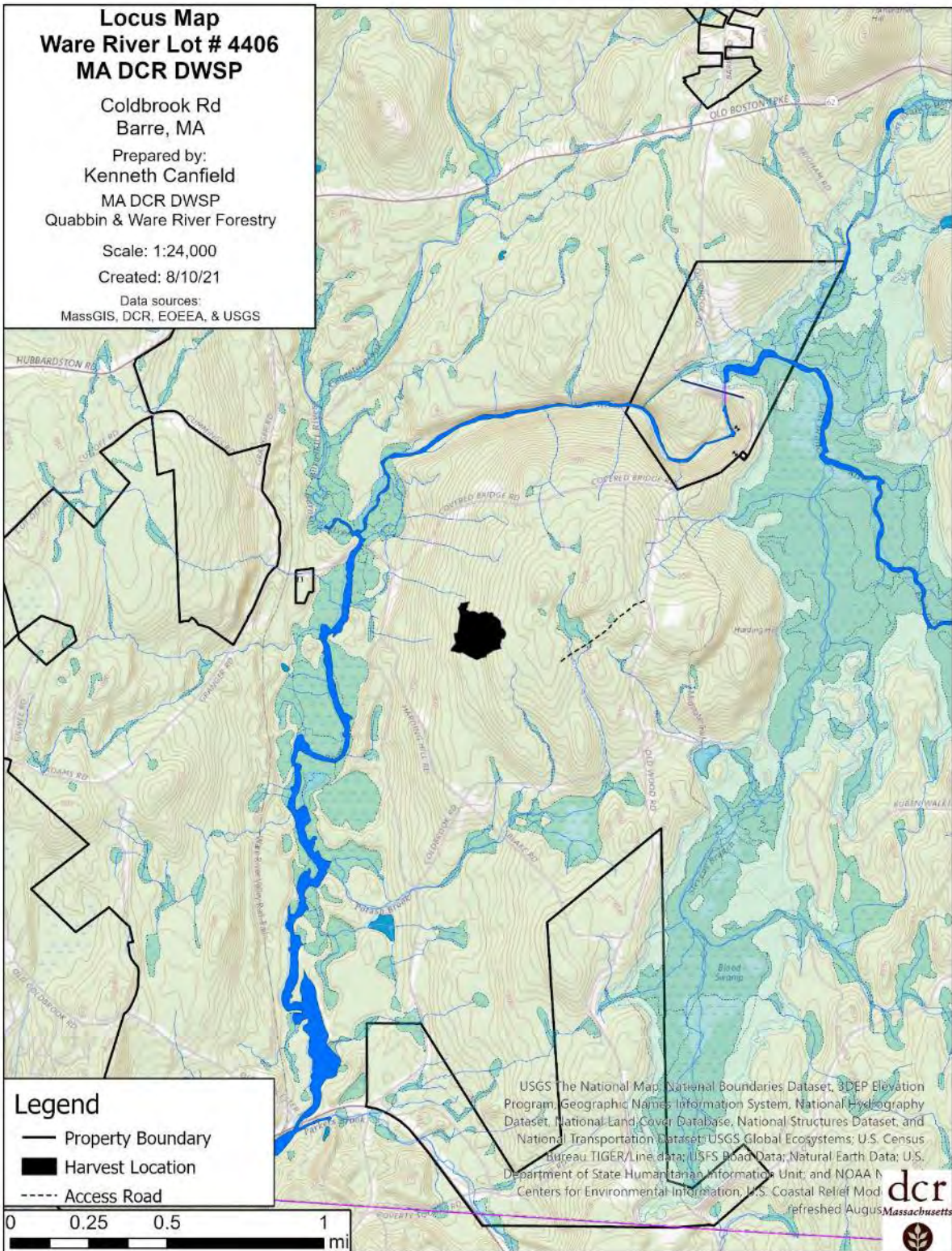
Coldbrook Rd
Barre, MA

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

Scale: 1:24,000

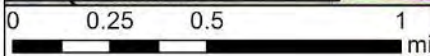
Created: 8/10/21

Data sources:
MassGIS, DCR, EOEEA, & USGS



Legend

- Property Boundary
- Harvest Location
- - - - Access Road



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 Unit; and NOAA Centers for Environmental Information, U.S. Coastal Relief Model





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

FILE # **021.32475.22**

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

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
COLDBROOK lot.

Approval Date **8/24/21**
 Director's Agent **CHRIS CAPONE**
 DCR Phone No. **(857) 406-0175**

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