

**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

DWSP Proposal ID: WR-19-20-3 and WR-19-22-S

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

Area of Critical Environmental Concern (ACEC)?: 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: No

Harvest Information

Harvest Start Date: 7/6/22

Harvest End Date: 8/14/22

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 number: 431

Phone number: 857 274 7090

Email: Kenneth.canfield@mass.gov

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.

Rare or Endangered Species

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

Figure 1. Final Forest Cutting Plan

FINAL

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		

Site Information

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.

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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

*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

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FINAL

Service Forester Codes

	Approved	Disapproved	Expires
Cutting Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8/11/23
Signature of Service Forester/Director's Agent	<i>[Signature]</i>		8/24/21
			Date
Extension	1 <input type="checkbox"/>	2 <input type="checkbox"/>	Expires /
Amendment	App 1 <input type="checkbox"/>	Dis 1 <input type="checkbox"/>	App 2 <input type="checkbox"/>
			Dis 2 <input type="checkbox"/>
			Ser. For. Ints. /

I hereby certify that the afore described Forest Cutting Plan and all relevant statutes have been substantially complied with.

[Signature] 8/11/2022
 Signature of Service Forester/Director's Agent Date

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	Blck 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	<u>Landowner Objective</u>		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.			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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Stand Map
Ware River Lot 4406
Coldbrook Rd.
Barre, MA
Prepared by:
Kenneth Canfield
MA DCR DWSP
Quabbin & Ware River Forestry

-  Stand Outline
-  Landing
-  Skid Trails
-  Unpaved Road
-  Stone Walls
-  Stream/River: Perennial
-  Stream/River: Intermittent
-  Stream/River: Ephemeral
-  Swamp/Marsh

Scale: 1:7,200

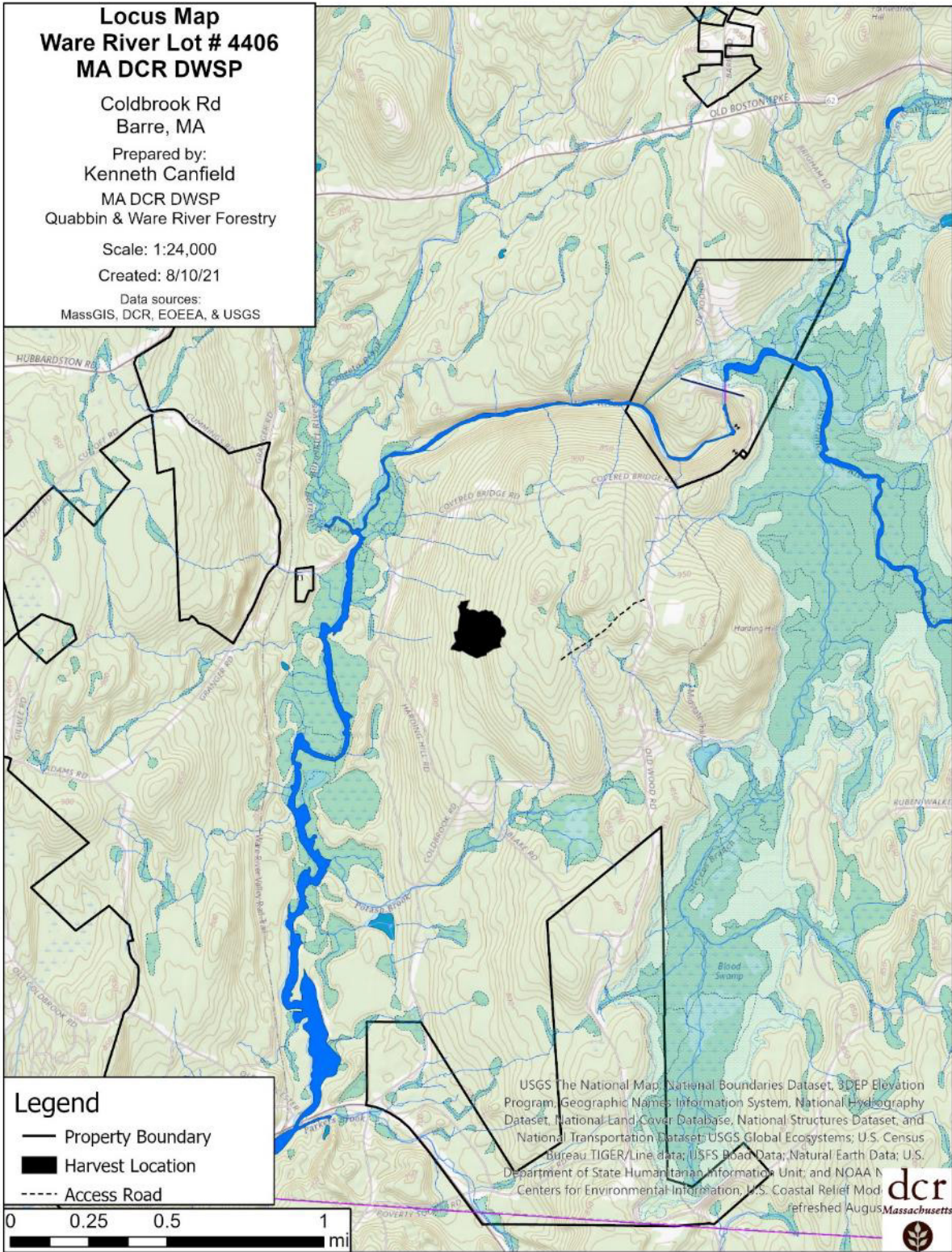
Created: 8/10/21

Data sources:
MassGIS, DCR, & EOEEA



**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, SDEP 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
refreshed August 2011



dcr



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

FILE # 021.32475.22

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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
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