

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

Project Title: Whitehall Barrens 2

DWSP Harvest Permit Number: 4405

DWSP Proposal ID: WR-21-08-2

DCR Forest Cutting Plan File Number: 257-32398-21

Site Information

Watershed: Ware River Watershed

Town(s): Rutland

Acres: 23

Nearest Road: Whitehall Road

Natural Heritage Atlas overlap?: No

Public Drinking Water Supply Watershed?: Yes

Forest Types: White Pine/Hardwood, Red Pine, White Pine/Oak

Area of Critical Environmental Concern (ACEC)?: No

Soils: 254B - Merrimac fine sandy loam - excessively drained

Wetland Resources: Parker Brook and associated wetlands are adjacent to the harvest area.

Vernal Pools: No

Harvest Information

Harvest Start Date: 11/7/22

Harvest End Date: 12/5/22

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 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 Rutland on Whitehall Rd, adjacent to the MA Central Rail Trail. It consists of white pine/hardwood, red pine, and white pine/oak stands.

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

Tree of heaven is present on the rail trail in the harvest area.

The soils are excessively 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.

This area was chosen because it is a good site to expand the pine/oak barrens on Whitehall Rd. This type of habitat is relatively rare in central Massachusetts and supports many rare species. It is characterized by overstory pitch pine and oak and is relatively open. The habitat is fire dependent. DWSP's goal is to maintain the habitat that will be created by this harvest with mechanical mowing and/or prescribed fire.

Silvicultural Objectives

The goal in these stands is to create a barren to expand recent pitch pine/oak barren that was established in 2020 on the other side of the MCRT. The overstory pitch pine and white oak that is present is more scattered than the area that was previously cut. That will result in some areas that appear more open after the harvest. All trees greater than 5 feet tall that are not pitch pine or white oak will be cut and removed.

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.

Figures

- Figure 1 Final Forest Cutting Plan
- Figure 2 (A-C) Pre-Harvest Photos taken 9/9/22
- Figure 3 (A-C) Post-Harvest Photos taken 12/5/22
- Figure 4 (A-C) Post Harvest Photos taken 7/13/23 (After 1 growing season)

Figure 1 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)

JUN 09 2021

For DCR Use Only:

File Number 257-32398-21 Case No. _____
Date Rec'd 6-9-21 Nat. Hert. N
Earliest Start 6-24-21 Pub. Dr. Wat. N
River Basin CHICOPEE ACEC _____
Gen. Obj. LT

Site Information

Location

Town Rutland
Road Whitehall Rd
Acres 23 Proposed Start Date 7/21
Vol. MBF 89.4 Vol. Cds. 77 Vol. Tons 582

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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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 (sec pg 2)				
Acres to be Harvested				
Resid. Basal Area (>50%?)				

Service Forester Comments

*PLEASE NOTIFY DCR SERVICE FORESTER AT START OF HARVEST OPERATION

Best Management Practices

Codes

<u>Type of Preparer</u>	<u>Type of Crossing</u>	<u>Stabilization</u>	<u>Mitigation</u>	<u>Type of Bottom</u>
LF Mass. Lic. For.	CU Culvert	SE Seed	FR Frozen	LE Ledge
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		

Note:
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.

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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 Rutland

File Number 257-32398-2

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
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1,2,3	OT	The purpose of the harvest is to remove undesirable species in order to restore a pitch pine/oak barren. DWSP intends to use prescribed fire and/or mowing to control the regeneration of undesirable species in the future. Approximately 11 square feet of basal area per acre of trees of desirable species (pitch pine and all oak species greater than 5 inches dbh) have been marked for retention. The desirable species occur sporadically throughout the stands, so that in some areas there is 20 + square feet of basal area per acre and other areas there is less than 5 square feet of basal area. All other trees, except in the filter strip, will be removed. The resulting harvest, outside of the filter strip, will resemble a clearcut or seed tree harvest in terms of stocking of overstory stems.
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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
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1,2,3	The desired future condition of this stand is a pitch pine/oak barren. This type of habitat is relatively open. The overstory will consist of scattered, healthy, large pitch pine and oak stems. The understory will be dominated by ericaceous species such as lowbush blueberry and huckleberry, with some taller shrubs, such as high bush blueberry, serviceberry, and scrub oak scattered sparsely.

Stand Map Ware River Lot 4405

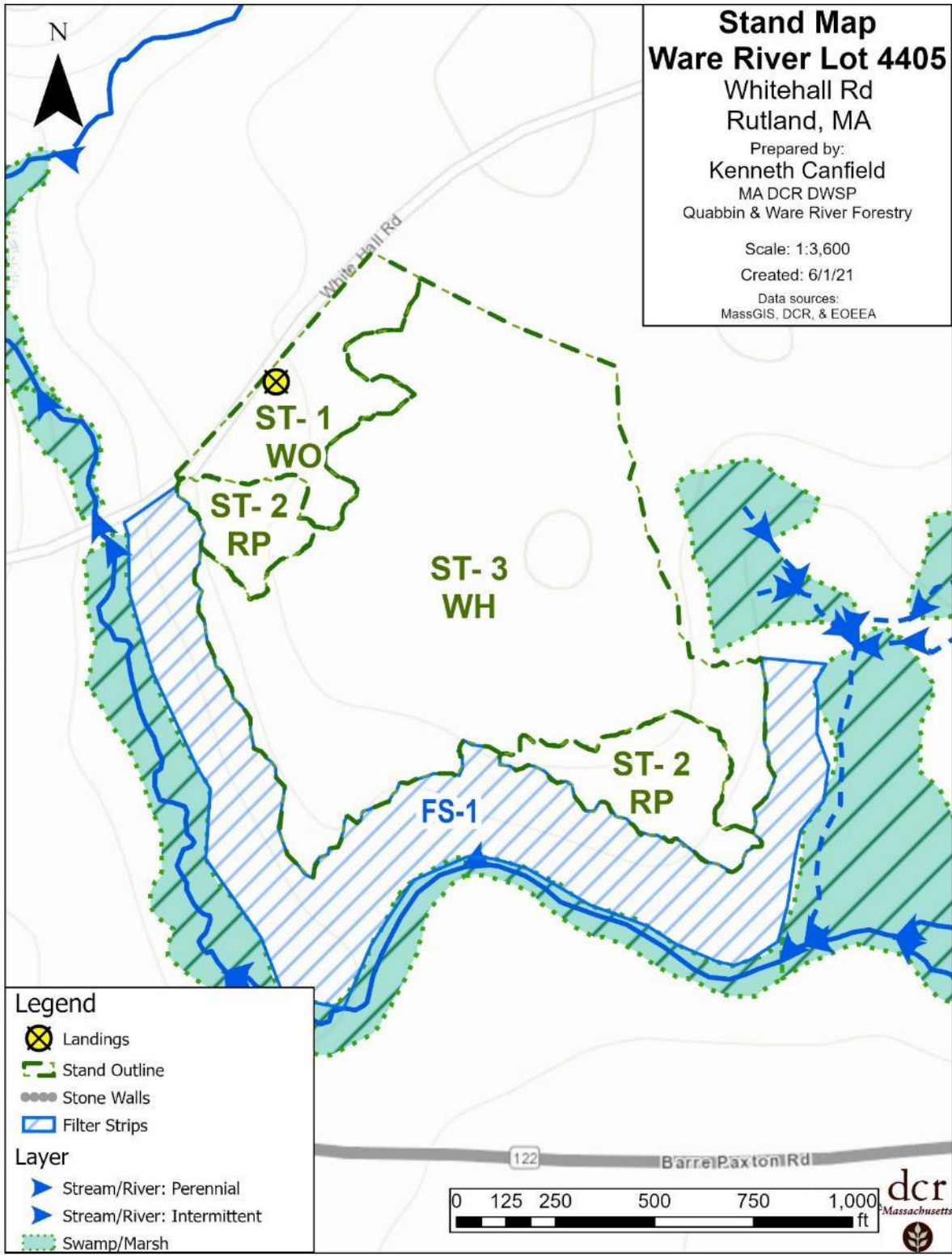
Whitehall Rd
Rutland, MA

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

Scale: 1:3,600

Created: 6/1/21

Data sources:
MassGIS, DCR, & EOEEA



Legend

- Landings
- Stand Outline
- Stone Walls
- Filter Strips

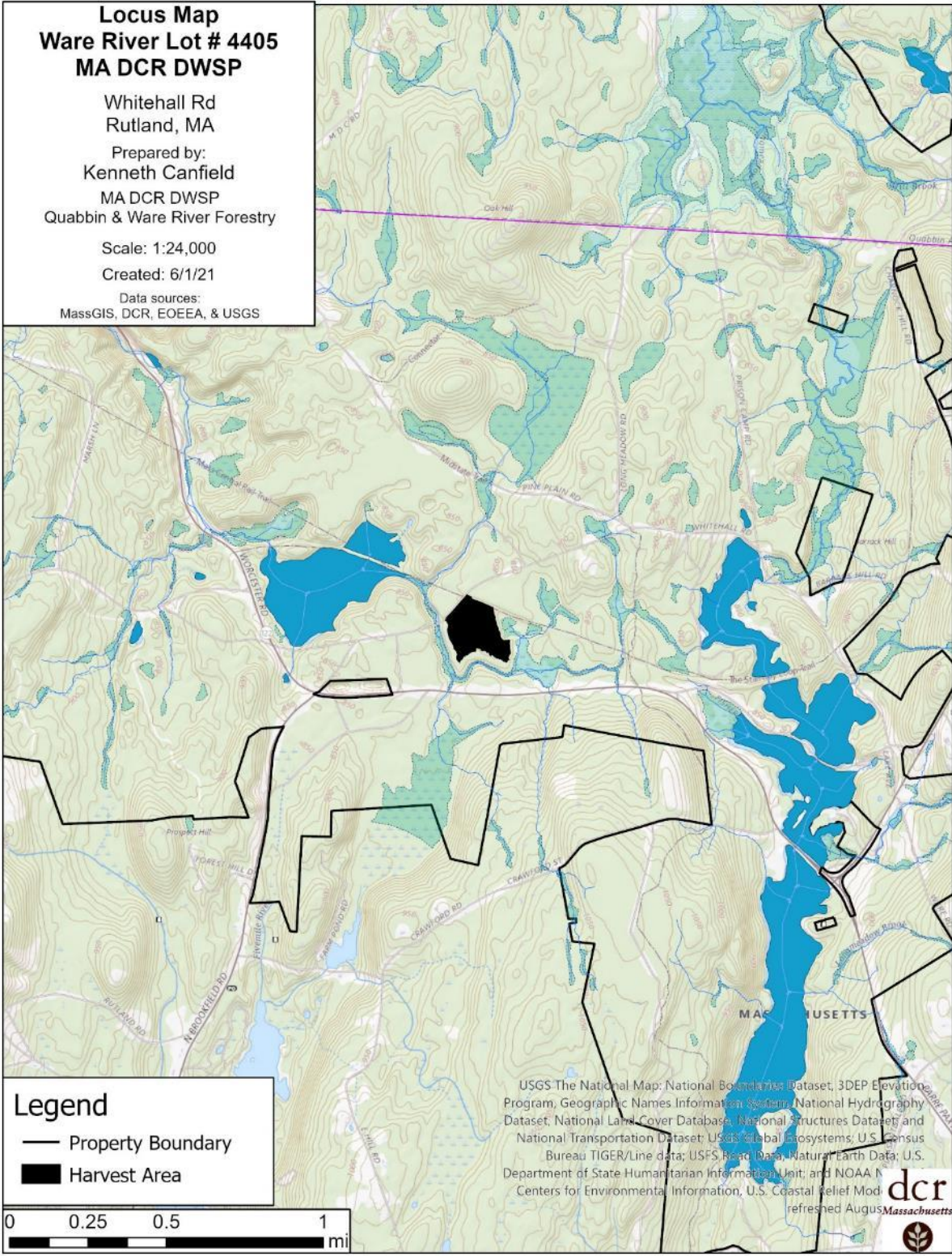
Layer

- Stream/River: Perennial
- Stream/River: Intermittent
- Swamp/Marsh



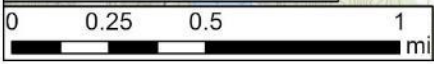
**Locus Map
Ware River Lot # 4405
MA DCR DWSP**

Whitehall Rd
Rutland, MA
Prepared by:
Kenneth Canfield
MA DCR DWSP
Quabbin & Ware River Forestry
Scale: 1:24,000
Created: 6/1/21
Data sources:
MassGIS, DCR, EOEEA, & USGS



Legend

- Property Boundary
- Harvest Area



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
dcr
refreshed August 2021
Massachusetts

dc



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

FILE # **257-32398-21**

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** in accordance with the
(Address) **01007**

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
WHITE HALL lot.

Approval Date **6/21/21**
Director's Agent **CHRIS CAPONE**
DCR Phone No. **(857) 406-0175**

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

Figure 2 (A-C) Pre-Harvest Photos taken 9/9/22
2A Looking southeast from Whitehall Rd



2B Looking east from Whitehall Rd



2C Looking south from Whitehall Rd



Figure 3 (A-C) Post-Harvest Photos taken 12/5/22
3A Looking southeast from Whitehall Rd



3B Looking east from Whitehall Rd



3C Looking south from Whitehall Rd



Figure 4 (A-C) Post Harvest Photos taken 7/13/23 (After 1 growing season)

4A Looking southeast from Whitehall Rd



4B Looking east from Whitehall Rd



4C Looking south from Whitehall Rd

