

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

**Project Title: Cunningham Corner**

<b>DWSP Harvest Permit Number:</b> 4409
<b>DCR Forest Cutting Plan File Number:</b> 140-33913-22

**Site Information**

<b>Watershed:</b> Ware River Watershed	<b>Town(s):</b> Hubbardston
<b>Acres:</b> 20.0	<b>Nearest Road:</b> Old Westminster Rd
<b>Natural Heritage Atlas overlap?:</b> No	<b>Public Drinking Water Supply Watershed?:</b> Yes
<b>Forest Types:</b> white pine/hardwood, oak/hardwood	<b>ACEC<sup>1</sup>?:</b> No
<b>Soils:</b> 905C – Peru-Marlow association, 901E – Berkshire-Marlow association.	
<b>Wetland Resources:</b> The harvest area is adjacent to Cunningham Pond, Josslin Brook, and several wetlands.	
<b>Vernal Pools present or within 200 feet of harvest :</b> No	

**Harvest Information**

<b>Harvest Start Date:</b> After 7/1/22	<b>Harvest End Date:</b> Before 6/27/2024
<b>Number of Wetland Crossings:</b> None	<b>Number of Stream Crossings:</b> None

**Best Management Practices Applied**

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

<b>DWSP Forester supervising this harvest</b>
<b>Name:</b> Ken Canfield
<b>Forester License #</b> 431
<b>Phone #:</b> 857-274-7090
<b>Email:</b> <a href="mailto:kenneth.canfield@mass.gov">kenneth.canfield@mass.gov</a>

<sup>1</sup>ACEC: Area of Critical Environmental Concern

## **NARRATIVE**

### **General Description/Forest Composition/History:**

The harvest area is located in the town of Hubbardston, east of Old Westminster Rd. It consists of 15.6 acres of a white pine/hardwood stand and 4.4 acres of an oak/hardwood stand.

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

Glossy buckthorn is present but not well established. Some stems were hand pulled during tree marking.

The soils are 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.

This harvest area was chosen because there is a high component of even aged low quality overstory white pine. Stands like these are low in diversity and susceptible to wind events.

### **Silvicultural Objectives:**

The harvest will remove the lower quality white pine in groups. The goal is to put enough sunlight on the ground to allow new natural regeneration of diverse species to be established. Four group selection openings of 0.6, 0.6, 1.5, and 1.7 acres in size and two clearcuts of 4.9 acres and 5.0 acres in size will be established, with a few healthy overstory trees retained in each opening. There is also 5.7 acres of commercial thinning in oak/hardwood and white pine/hardwood stands around the openings.

### **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 40-33413-22 Case No. \_\_\_\_\_  
 Date Rec'd 6-1-22 Nat. Hert. \_\_\_\_\_  
 Earliest Start 6-16-22 Pub. Dr. Wat. WARE RIVER  
 River Basin CHICOPEE ACEC \_\_\_\_\_  
 Gen. Obj. LT

**Site Information**

**Location**

Town Hubbardston  
 Road Old Westminster Rd  
 Acres 20.0 Proposed Start Date 7/22  
 Vol. MBF 105.4 Vol. Cds. 212 Vol. Tons 839

**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

**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)				

**Codes**

**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

**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.
TH Lic. Tim. Har	BR Bridge	MU Mulch	DR Dry	ST Stony	Some forestry activities, such as prescribed burning and pesticide or fertilizer application may require additional permits. Consult MA Forestry BMP Manual for further information.
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

pg 3 of 5



## Products to be Harvested\*

Species	Mbf/Cds		Mbf/Cds
White Pine	99.3 Mbf	Red Maple	102 Cds
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	6.1 Mbf
Hemlock		Black Oak	13 Cds
Spruce		White Oak	
Other Sitwd.		Other Hdwd.	
White Ash	22 Cds	Total Mbf	105.4
Beech	1 Cd	Cordwood (Cds)	212
White Birch		SW Pulp (Tons)	
B & Y Birch		HW Pulp (Tons)	
Black Cherry	64 Cds	Chips (Tons)	839

\*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.

## Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WH <input checked="" type="checkbox"/>	WH <input checked="" type="checkbox"/>	OH <input checked="" type="checkbox"/>	WH <input checked="" type="checkbox"/>
Acres	4.4	9.9	4.4	1.3
Landowner Objective	LT	LT	LT	LT
Designation of Trees	LT <input checked="" type="checkbox"/>	LT <input checked="" type="checkbox"/>	CT <input checked="" type="checkbox"/>	CT <input checked="" type="checkbox"/>
Type of Cut	SE <input checked="" type="checkbox"/>	CC <input checked="" type="checkbox"/>	CT <input checked="" type="checkbox"/>	CT <input checked="" type="checkbox"/>
Source of Regeneration	SE	SE	SE <input checked="" type="checkbox"/>	SE <input checked="" type="checkbox"/>

## 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

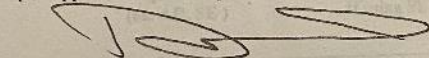
Harvest of trees with the main intention of producing short-term income with minimal consideration given to improving the future forest condition, which often results in a forest dominated by poor quality and low value species.

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.



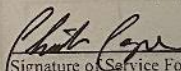
Signature of landowner(s)

Date

5-26-2022

## Determination and Status 140-33913-22

Approved ☒ Disapproved ☐ Expires 6/1/24



Signature of Service Forester/Director's Agent

6/14/22

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

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	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	Sanitation	DL	Diameter Limit*	OT	Other
						ST	Shg-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 Hubbardston

File Number 140-33913-22

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.  
Stand 1 consists of 4 group selection patches that are 0.6, 0.6, 1.5, and 1.7 acres. Stand 2 consists of 2 clearcuts that are 4.9 and 5.0 acres. Stands 1 and 2 are both in old field white pine stands and target low quality white pine for removal.  
Stands 3 and 4 are commercial thinnings. Stand 3 consists of 2 oak/hardwood stands that are 1.5 and 2.9 acres. Stand 4 consists of 2 white pine/hardwood stands that are 0.3 and 1.0 acres.

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 # 4409**  
**MA DCR DWSP**

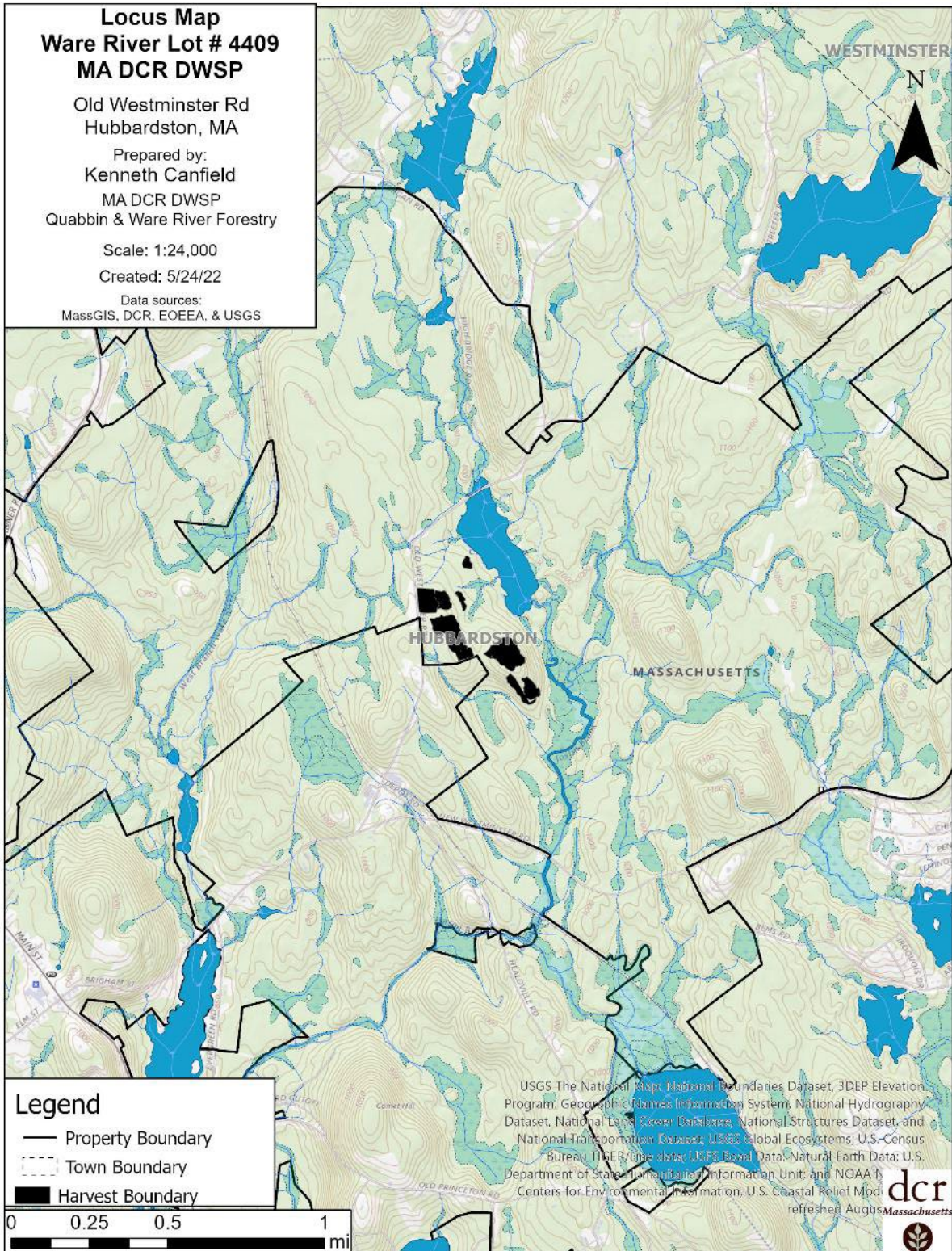
Old Westminster Rd  
Hubbardston, MA

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

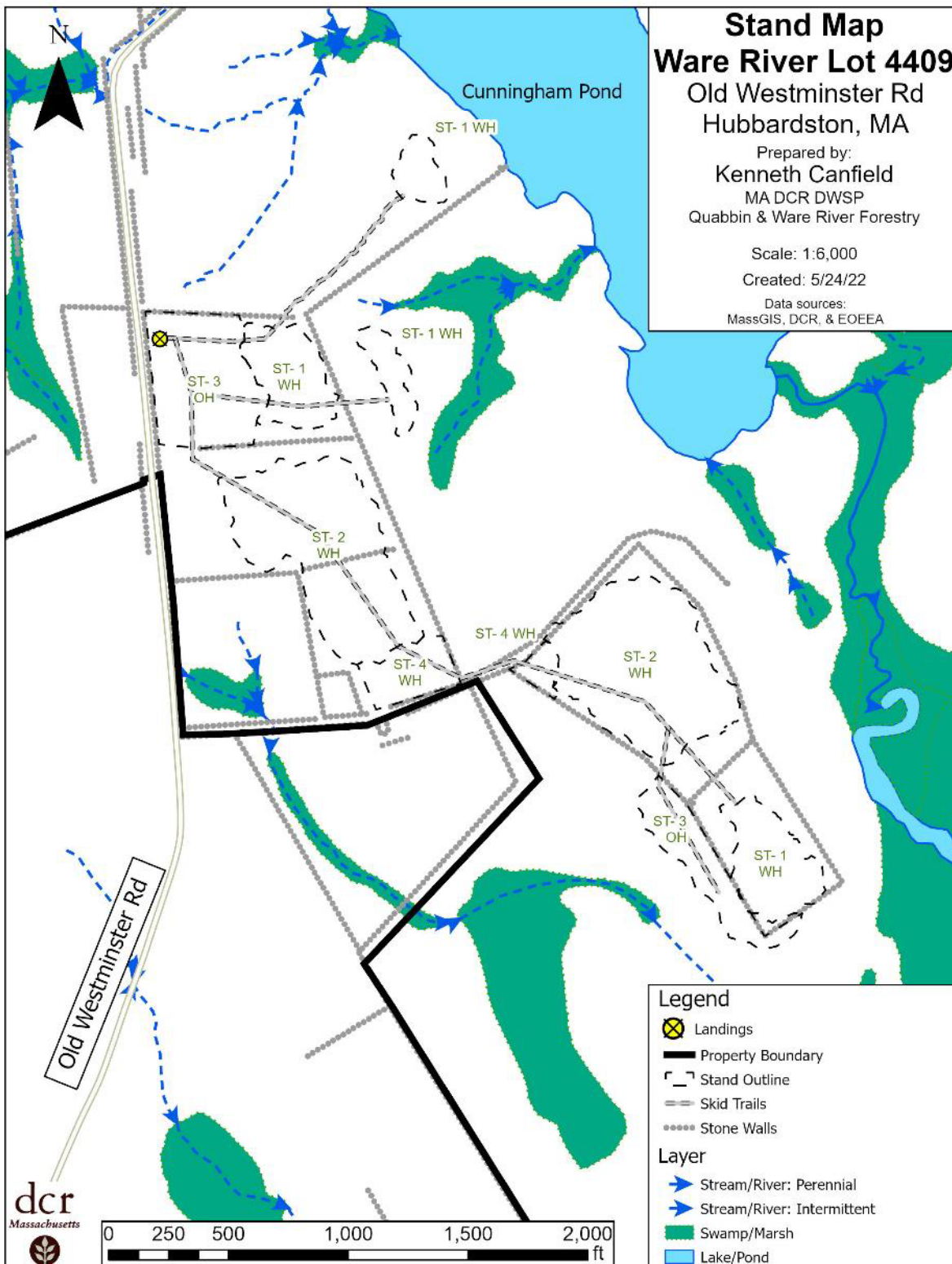
Scale: 1:24,000

Created: 5/24/22

Data sources:  
MassGIS, DCR, EOEEA, & USGS









dc



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

FILE # 140-33913-22

## 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 BELCHERTOWN accordance with the  
(Name of Owner) (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  
OLD lot.

WESTMINSTER  
Approval Date 6/14/22  
Director's Agent CHRIS CAPONE  
DCR Phone No. (857) 406-0175

ISSUED BY:

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