

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

**Project Title:**

<b>DWSP Harvest Permit Number: 5302</b>
<b>DCR Forest Cutting Plan File Number: 134-34023-23</b>

**Site Information**

<b>Watershed: Wachusett</b>	<b>Town(s): Holden</b>
<b>Acres: 40</b>	<b>Nearest Road: Dorothy Ave.</b>
<b>Natural Heritage Atlas overlap?: None</b>	<b>Public Drinking Water Supply Watershed?: Yes</b>
<b>Forest Types: White pine/oak, Mixed oak, White pine</b>	<b>ACEC?: No</b>
<b>Soils: Windsor, Hinckley and Merrimac loamy sands and Sudbury fine sandy loam</b>	
<b>Wetland Resources: Warren Tannery Brook and its associated wetlands form the western boundary of this sale area.</b>	
<b>Vernal Pools: None</b>	

**Harvest Information**

<b>DWSP Permit Start Date: 9/6/2022</b>	<b>DWSP Permit End Date: 12/12/2024</b>
<b>Number of Wetland Crossings: None</b>	<b>Number of Stream Crossings: None</b>

**Best Management Practices Applied**

<b>Stream Crossings</b>	There are no stream crossings.
<b>Filter Strips</b>	There are no filter strips.
<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: Greg Buzzell</b>
<b>Forester License #: 025</b>
<b>Phone #: 774-261-1841</b>

## **NARRATIVES**

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

The forest overstory in this area is dominated by red oak, white pine, black oak, white oak and red maple. In the southern part of the area there is some black cherry and hemlock as well. In the northern end there are paper birch mixed into the overstory. Most of this property was logged about 30 years ago prior to DCR acquisition. The result has been the establishment of an excellent understory of regeneration. This regeneration is primarily hardwoods in the southern end made up of red maple, red oak, black cherry, bigtooth aspen and some white pine. There is also quite a lot of shadbush. In the northwestern corner of the area where many of the overstory trees have fire scars from a wildfire several decades in the past, there's significantly more oak in the understory. The central and northeastern parts of this area on the hill, along with having much shorter overstory trees also have a far larger component of white pine in the understory. The shrub layer in this area is made up of mt. laurel and huckleberry. In the lower areas in the south end of this working unit there is highbush blueberry along with the ubiquitous mountain laurel while sheep laurel is present with the mountain laurel in the previously burned northwest corner.

The age structure of this area is as follows; 0%, 0-20 years old; 0%, 21-40 years; 0%, 41-60 years; 13%, 61-80 years; 41%, 81-100 years and 46%, >100 years old. The oldest stands date to about 1900 making them just over 120 years old.

### **Site Selection:**

The ideal watershed protection forest is one which best serves the function of the land as a producer of high quality drinking water in both short- and long-term. This forest must be vigorous and diverse in tree species and ages, be actively accumulating biomass and actively regenerating. Such a forest will be ideally suited to be resilient to and quickly recover from small- and large-scale disturbances such as diseases, insect infestations, ice storms and hurricanes.

### **Silvicultural Objectives:**

With good advance regeneration present comprised of a diversity of species well suited to this site, the goal is to make openings in the overstory, giving the young trees the space and light they need to continue to thrive. To that end, 10 openings are being made totaling 9.3 acres. These range in size from 0.4 to 1.77 acres. These openings are well distributed throughout the area taking advantage of where the advance regeneration is best. Large trees are being retained in most of these openings that are larger than ½ acre both singly and in small clusters. These trees provide valuable structural diversity to these openings and it is expected that most of these retained trees will be allowed to grow indefinitely into the future.

### **Cultural Resources:**

This lot was reviewed by the DCR archaeologist and all recommendations will be followed. There is no known cultural significance to this area, either historically or pre-European contact.

### **Wildlife/Rare or Endangered Species:**

Stick nests were noted and although they appeared to be inactive, care will be taken to protect any that are found prior to or during the harvest operation.

## **FIGURES**

**Figure 1. Forest Cutting Plan**

**Figure 2. Map of harvest area showing approximate boundary, proposed openings and other features**

**Figure 3. General locus map showing the location of the proposed timber harvest**

**Figure 4. Pre-Harvest Photographs, A-C**

**Figure 5. Post-Harvest Photographs, A-C**

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: 1/1/04)

**For DCR Use Only:**

File Number 31-2453-23 Case No. \_\_\_\_\_  
 Date Rec'd 8-25-02 Nat. Hist. \_\_\_\_\_  
 Earliest Start 9-9-02 Nat. Hist. Imp \_\_\_\_\_  
 River Basin NASHUA Pub. Dr. Wat. MASSACHUSETTS  
 Gen. Obj. LT ACEC \_\_\_\_\_

Site Information

**Location**

Town: Holland Lot 5302  
 Road: Dunphy Ave  
 Acres: 40 Proposed Start Date: 10/22  
 Vol. MBF: 49.8 Vol. Cds: 138 Vol. Tons: 40

**Plan Preparer**

Name: Gregory S. Blizzell  
 Address: 180 Beaman Rd.  
 Town, State, Zip: West Boylston, MA, 01583  
 Phone: 774-261-1811  
 Type of Preparer: Mass. Licensed Forester  
 \*Mass. Forester License # 25  
 \*Required for land under Ch61, Ch61A or Forest Stewardship

**Landowner**

Name: DCR/DWSP/OWM Westuse/Sudbury  
 Mailing Address: 180 Beaman St.  
 Town, State, Zip: West Boylston, MA 01583  
 Phone: 608-792-7806  
 Ch61  Ch61A  Stew  \*Case # \_\_\_\_\_  
 Est. Stumpage Value: \_\_\_\_\_

**Licensed Timber Harvester\*\***

Name: To be supplied when known.  
 Address: \_\_\_\_\_  
 Town, State, Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Mass. Lic. Harvester #: \_\_\_\_\_  
 \*\*This information may be supplied after the plan is approved, but before work begins

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 Y/A)				

**Harvesting in Wetlands**

Indicate location on map	HW-1	HW-2	HW-3	HW-4
Forest Type (see pg 2)				
Acres to be Harvested				
Resic. Basal Area (>50%)				

**Service Forester Comments**

\*PLEASE NOTIFY DCR SERVICE FORESTER AT START OF HARVEST OPERATION.

Codes

Symbol/Description	Symbol/Description	Symbol/Description	Symbol/Description	Symbol/Description	Symbol/Description	Note
LF Mass. Lic. For.	CC Cattle	SP Seed	PR Prezer	LD Leuze		Applicant must provide DCR with all relevant information
TR Lic. Tim. Har	BR Bridge	MU Mulch	DR Dry	ST Stump		Unless plan may be approved and cutting may begin
TD Timber Duct	FO Fuel	CO Coaling	OT Other	MJ Mud		Some forestry activities & other plans that farming and
LO Landowner	PI Pile	SI Stone		GR Gravel		activities or other plans applicant may require additional permits
OL Other	OT Other	OD Dry Ditch		OT Other		Consult the Forestry BMP Manual for further information
		OC 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	Species	Mbf/Cds
White Pine	27.3	Red Maple	
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	16.3
Hemlock		Black Oak	1.4
Spruce		White Oak	1.8
Other Straw		Other Ldwd.	
White Ash		Total Mbf	49.8
Beech		Cordwood (Cds)	138
White Birch		SW Pulp (Tons)	40
B & Y Birch		FW Pulp (Tons)	
Black Cherry		Chips (Tons)	

\*Note: Volumes and values 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 foot.

Stand Treatment

**Cutting Standards**

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Fores. Type	WO	OM		
Acres	32.6	8.4		
Landowner Objective	LT	LT		
Designation of Trees	CT	CT		
Type of Cut	SH	SE		
Source of Regeneration	AD	AD		

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**

Planed 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 concern as to 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 amount of record within two hundred feet of the area to be harvested.

I (we) understand that the volumes and values (Ch6) only in this plan have not been independently verified by the service forester upon approval and will report that values to a witness to the Director or his/her agent if the final Review of Plan from those reported.

*Kelley M. Frieda*  
Signature of landowner(s)

*8/9/2022*  
Date

Service Forester

**Determination and Status**

	Approved	Disapproved	Expires
Cutting Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>8/25/24</i>
			<i>9/12/22</i>

*[Signature]*  
Signature of Service Forester/Director's Agent

Date

Expenses	App 1	Dis 1	App 2	Dis 2	Expires	Rev. For Inv.
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Assessment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

**Final Report and Comments**

I hereby certify that the above described Forest Cutting Plan and all relevant notices have been substantially completed with:

Signature of Service Forester/Director's Agent: \_\_\_\_\_ Date: \_\_\_\_\_

Codes

Tree Types	HL	Hemlock	OM	Misc. Dec	Type of Cut	ST	Seed Tree	Intensified Harvest	Form of Regeneration
WP - White Pine	SE	Hardwood	RM	Red Maple	CT	Cut Tree	SH	Shallow	AD
WE - White Birch	SE	Hardwood	RM	Red Maple	LI	Leave Tree	ST	Seed Tree	CT
WH - White Fir	SE	Hardwood	RM	Red Maple	SE	Seed Boundary	SE	Seed Tree	CT
WO - White Oak	SE	Hardwood	RM	Red Maple	OT	Other	SE	Seed Tree	CT
BT - Red Pine	OM	Hardwood	RM	Red Maple	LT	Long-term Mgt	SE	Seed Tree	CT
SR - Red Spruce	OM	Hardwood	RM	Red Maple	ST	Short-term Mgt	SE	Seed Tree	CT

\*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

Use only if further explanation is required of information on pages one or two or if "other" was used in any category.

Landowner: DCR/OWSP

Town: Holden

File Number: 134-34023 2S

<b>BMPs</b>	<p><u>There are no stream crossings or wetland crossings planned.</u></p>
<b>Silviculture</b>	<p><u>In order to release advance regeneration, 10 openings in the overstory are being created, covering 9.3 acres. These openings range from 0.38 acre to 1.77 acres in size with an average of 0.93 acres. They are well distributed throughout the area taking advantage of the advance regeneration comprised of white pine, oaks, and other hardwoods.</u> <u>No cutting will occur between any of these patches.</u></p>
<b>Object</b>	<p><u>The objective of this operation is to diversify the age structure of the forest by removing the overstory in patches thereby releasing the advance regeneration. The current age structure is limited with an insufficient component of young forest.</u></p>
<b>Other</b>	<p><u>All haul roads as shown on the map have been flagged.</u></p>



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

FILE # **134.34023.23**

# 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** **WEST BOSTON, MA** in 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

**DOROTHY AVE** lot **5302**

Approval Date **9/12/22**

Director's Agent **CHRIS CARONE**  
 DCR Phone No. **(857) 406-0775**

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

Figure 2. Map of harvest area showing approximate boundary, proposed openings and other features

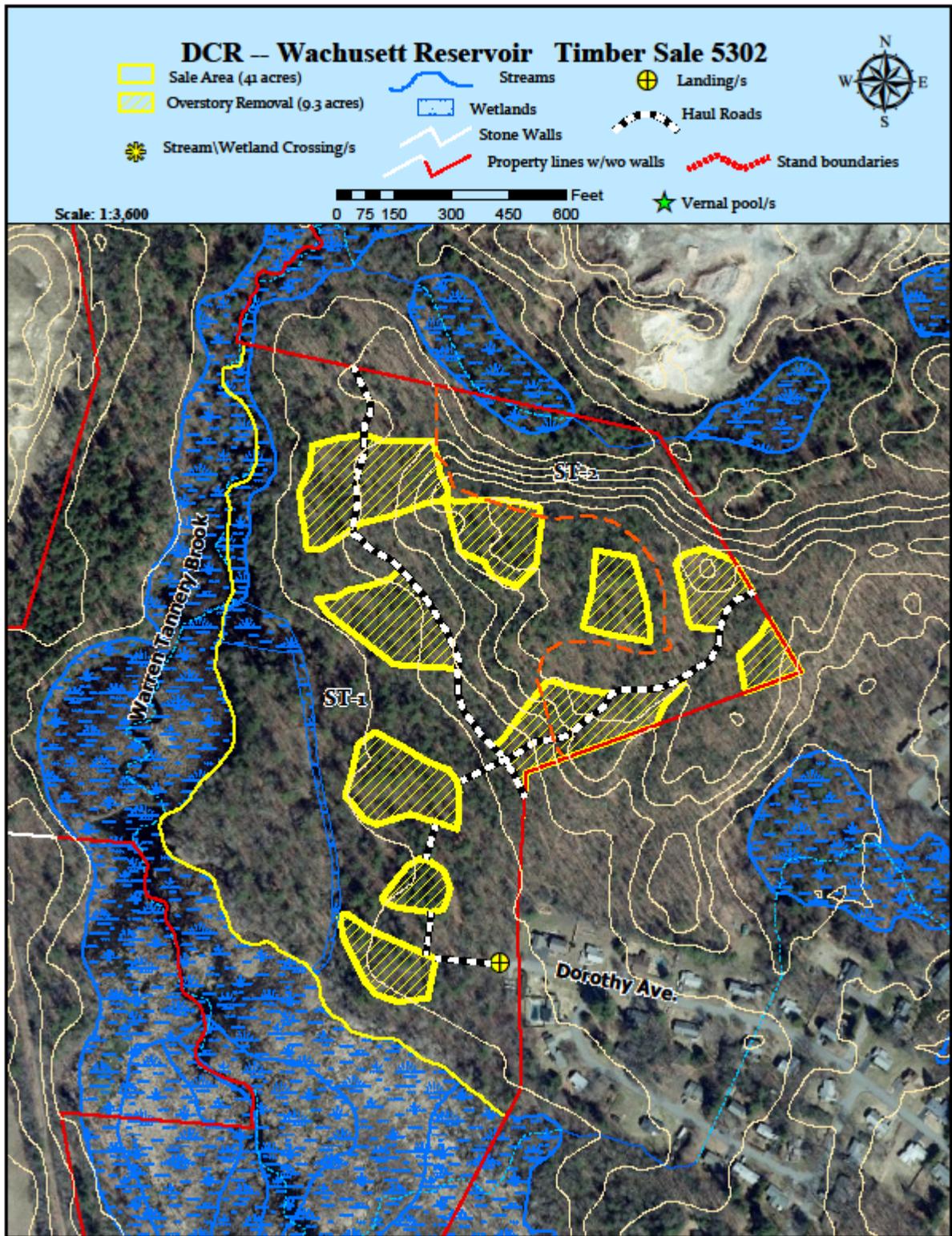
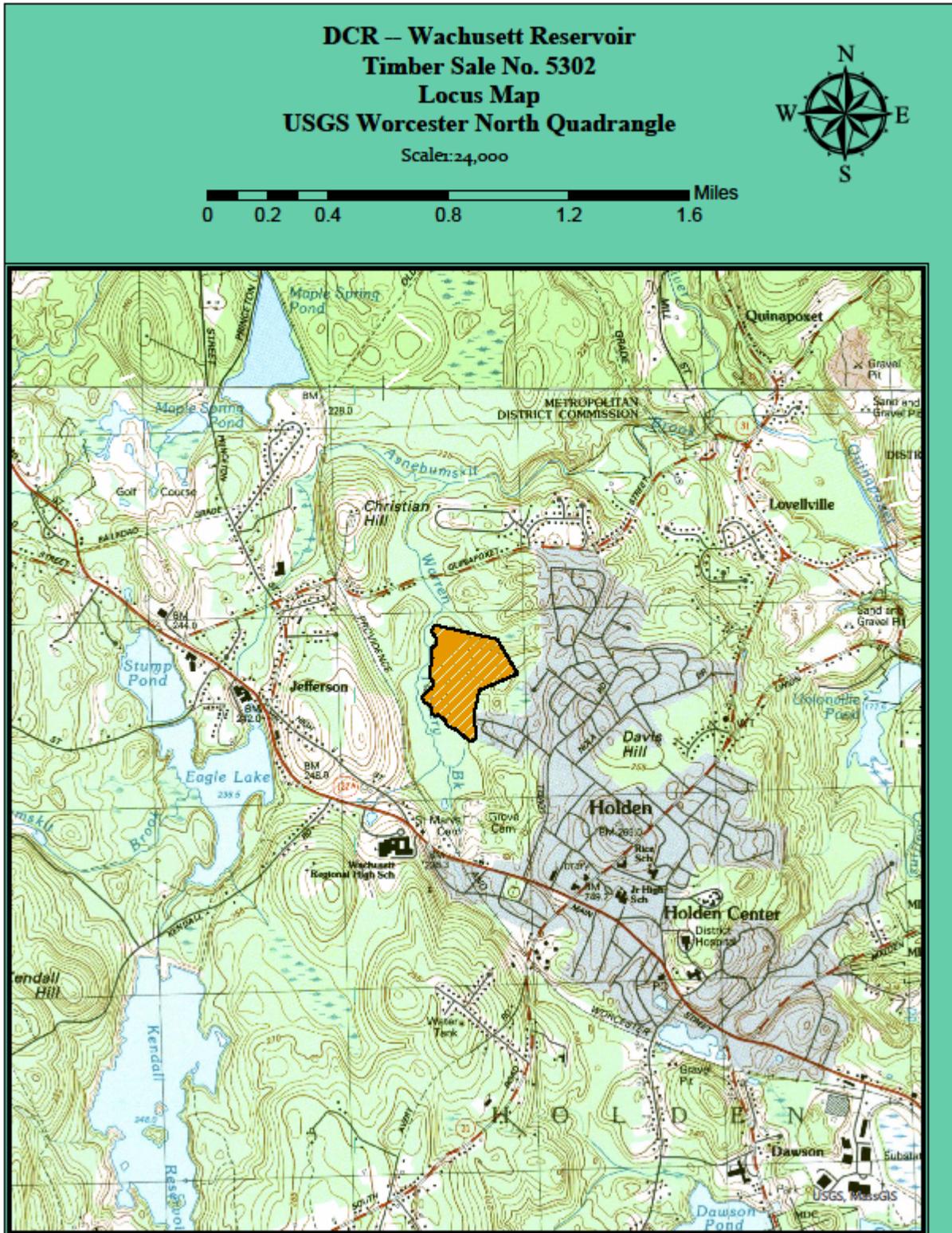


Figure 3. General locus map showing the location of the proposed timber harvest



**Figure 4. Pre-Harvest Photographs, A-C**



A. Looking easterly into a 1.5-acre opening. There is good hardwood and pine regeneration present. Note the white pine in the right foreground which is being retained to provide valuable structural complexity.



B. Looking southwesterly from within a 1.2 acre opening along the west side of a well used walking path.



C. Looking northeasterly from within the 1.77 acre opening in the far north end of the sale area. This is the area where a fire decades ago left many of the overstory trees with fire scars but there is also more oak in the understory.

**Figure 5. Post-Harvest Photographs, A-C**



A. The landing immediately after the last off the piled wood was removed.



B. The 1.77-acre opening were the fire occurred decades ago. There is good white pine and hardwood regeneration that is now free to grow. There is a white pine and several white oaks that are retained.



C. A good amount of the larger white pine and hardwood saplings were undamaged during the operation. The large white pine in the left of the picture was retained and will provide a long-term source of seed as well as structural diversity of decades to come.