

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

Project Title:

DWSP Harvest Permit Number: Lot 5271
DCR Forest Cutting Plan File Number: 134-9072-18

Site Information

Watershed: Wachusett	Town(s): Holden
Acres: 25	Nearest Road:
Natural Heritage Atlas overlap?: Yes	Public Drinking Water Supply Watershed?: Yes
Forest Types: White pine/Oak, Mixed Oak	ACEC?: No
Soils: Hinckley fine sandy loam	
Wetland Resources: The Quinapoxet River forms the eastern boundary of this sale area. There is a narrow wetland in the middle of the portion of this sale on the east side of Mill Street and there is a small wetland at the base of the hill on the portion on the west side of Mill Street.	
Vernal Pools: There are no vernal pools.	

Harvest Information

DWSP Permit Start Date: 11/29/17	DWSP Permit End Date: 12/06/19
Number of Wetland Crossings: None	Number of Stream Crossings: None

Best Management Practices Applied

Stream Crossings	There are no stream crossings.
Filter Strips	No trees are marked in any of the filter strips.
Wetland Crossings	There are no wetland crossings.
Harvesting in Wetlands	There is no harvesting in wetlands.

DWSP Forester supervising this harvest
Name: Greg Buzzell
Forester License #: 025
Phone #: 508-792-7806 x317

NARRATIVES

General Description/Forest Composition/History:

The white pines on the west side of Mill St. were planted in 1938. A strip shelterwood was performed in 1995 which resulted in excellent regeneration becoming established. There is also good advance regeneration under the mixed oak stand nearer to the old railroad bed which has not previously received treatment. The 1995 timber sale also treated the white pine/oak stand on the east side of Mill St. and this also resulted in excellent regeneration. The regeneration on both sides of the road is comprised of white pine, white oak and red oak along with red maple, hemlock and sugar maple.

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.

This area was chosen due to the lack of age diversity both in these 25 acres as well as the 2,423 acres of DCR-owned land that flows into the Quinapoxet River.

Silvicultural Objectives:

Given the excellent advance regeneration present, portions of the overstory will be removed in order to release these young trees. There are already about 5 acres of young forest, now 23 years old, resulting from the strip cuts in 1995. This operation will give result in a third age class in this forest by creating 9 openings ranging from 0.5 to 1.7 acres with an average of 0.9 acres. These openings are well distributed throughout the sale area taking advantage of where the regeneration is most numerous and diverse.

Cultural Resources:

There are multiple known and significant historic and archaeological resources associated with the Quinapoxet Manufacturing Site and any features located before or during the harvest operation must be protected according to guidelines set forth in the Comprehensive Land Management Plan. However, no features have to date been identified in the areas where trees are being cut as part of this operation.

Wildlife/Rare or Endangered Species:

NHESP has determined that certain state-listed sensitive species or habitats may exist within the lot proposal area. To protect them from unnecessary disturbance, detailed information regarding affected species and their locations is not included in this report. DWSP will coordinate with NHESP and follow recommendations to protect these species during the proposed activity. DWSP's Conservation Management Practices regarding vernal pools are being followed.

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 132-9002-16 Case No. _____
Date Rec'd 10-25-2017 Nat. Hert. VCS 1
Earliest Start 11-9-2017 Nat. Hert. Imp. VCS
River Basin NESHAU Pub. Dr. Wat. W-1-ARQUEST
Gen. Obj. CT ACEC NO

Site Information

Location

Town Holden Lot 5271
Road Mill Street
Acres 25 Proposed Start Date 12/1/17
Vol. MBF 80.1 Vol. Cds. 53 Vol. Tons 138

Plan Preparer

Name Russell Wilmot
Address 180 Beaman St.
Town, State, Zip West Boylston, MA, 01583
Phone 508-792-7806 Ext 318
Type of Preparer Mass. Licensed Forester
*Mass. Forester License # 426
*Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name DCR/DWSP/OWM Wachusett/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 VA)	VA	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

WILL SEND TRAILS/ROADS ARE EXISTING.
* PLEASE CONSIDER MONITORING SLICE GRASS.
* SEE WHEEP REQUIREMENTS (ATTACHED)
* OPERATION OF MOTORIZED VEHICLES STR. WIDE
SINCE OCCUR ONLY OCTOBER 15 TO APRIL 15

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.
TB Timber Buyer	FO Ford	CO Corduroy	OT Other	MU Mud	Consult MA Forestry BMP Manual for further information.
LO Landowner	PO Poled	ST Stone		GR Gravel	
OT Other	OT Other	HB Hay Bales		OT Other	

If Other (OT) is used in any category an explanation must be given on an attached narrative page

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	69.9	Red Maple	
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	7.1
Hemlock		Black Oak	1.8
Spruce		White Oak	1.3
Other Sftwd.		Other Hdwd.	
White Ash		Total Mbf	80.1
Beech		Cordwood (Cds)	53
White Birch		SW Pulp (Tons)	138
B & Y Birch		HW 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 feet.

Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WO	MO	WP	RM
Acres	19	9.0	5	2
Landowner Objective	LT	LT	LT	LT
Designation of Trees	CT	CT	CT	NA
Type of Cut	SH	SH	SH	NA
Source of Regeneration	AD/SE	AD/SE	AD/SE	NA

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 and values (Ch61 only) 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

10/25/17

Determination and Status

Approved Disapproved Expires

Cutting Plan

☒ ☐

10-25-2019

Signature of Service Forester/Director's Agent

Date

11-6-2017

Extension

☐

☐

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	Intermediate Harvests:	Source of Regeneration
WP White Pine	HK Hemlock	OM Mixed Oak	CT Cut Tree	SH Shelterwood	CT Commercial Thin	AD Advanced	
WK WP/Hem	HH Hem/Hdwd	RM Red Maple	LT Leave Tree	ST Seed Tree	NT Non Com Thin	SE Natural Seed	
WH WP/Hdwd	BC Black Cherry	BE Beech	SB Stand Boundary	CC Clear Cut	OT Other	PL Plant	
WO WP/Oak	BB Bee/Bir/Map	SF Spruce/Fir	OT Other	SE Selection	SA Salvage	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 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

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

Landowner: Orr House/Down

Town: Holden

File Number: 134-9072-18

BMPs	<p><u>No trees are marked within FS-1, 2, or 3.</u></p> <p><u>No Stream/wetland crossings will be needed on this site.</u></p> <p><u>On the east side of mill street heading north from the landing towards the second opening the haul road runs down the hillside across a narrow low spot that has some signs of being seasonally wet. This area will be protected with poles and tops.</u></p> <p><u>There are two landings opposite each other off of Mill Street.</u></p>
Silviculture	<p><u>In order to release advance regeneration, 9 openings in the overstory are being created, covering 7.8 acres.</u></p> <p><u>These openings range from 0.5 to 1.7 acres in size with an average of .9 acres. They are well distributed throughout the area taking advantage of the advance regeneration comprised of red maple, white pine, hickory, black cherry, red oak and other hardwoods.</u></p> <p><u>Several strips of white pine plantation will be removed on the west side of Mill Street. There is a 30 year old stand of hardwoods fully established that will be protected that was the result of a previous strip cut.</u></p>
Objectives	<p><u>The main 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> <p><u>A secondary objective is to remove the white pine plantations where they occur.</u></p>
Other	<p><u>About 200 feet of road frontage white pine plantation will be removed in the operation. The stand is on the west side of Mill Street south of the landing. The stand is in varying stages of decline and poses a hazard to the public.</u></p> <p><u>Please find the attached email from the Town of Holden Tree Warden who has fully inspected the stand in question.</u></p>

Buzzell, Greg (DCR)

From: dgriffin@holdenma.gov
Sent: Tuesday, October 10, 2017 7:51 AM
To: Buzzell, Greg (DCR)
Subject: Mill St Pines

Good morning Greg,

As per our discussion on 10/6/2017 regarding the stand of White Pines located in the area of 120 Mill St., I have reviewed the area and the trees in question and feel that in the best interest of public safety and further improve the safe distance for line clearance and long term protection of the HMLD grid, you have the full support of the office of the Tree Warden.

Town of Holden Tree Warden
Dennis Griffin

dcf



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

FILE # 134-9072-18

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/DASEP/OWM W. Boylston 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

MILL lot.

LOT 5271

Approval Date 11-6-2017

Director's Agent MICHAEL DOWNEY

DCR Phone No. 978-368-0126

ISSUED BY:

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

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

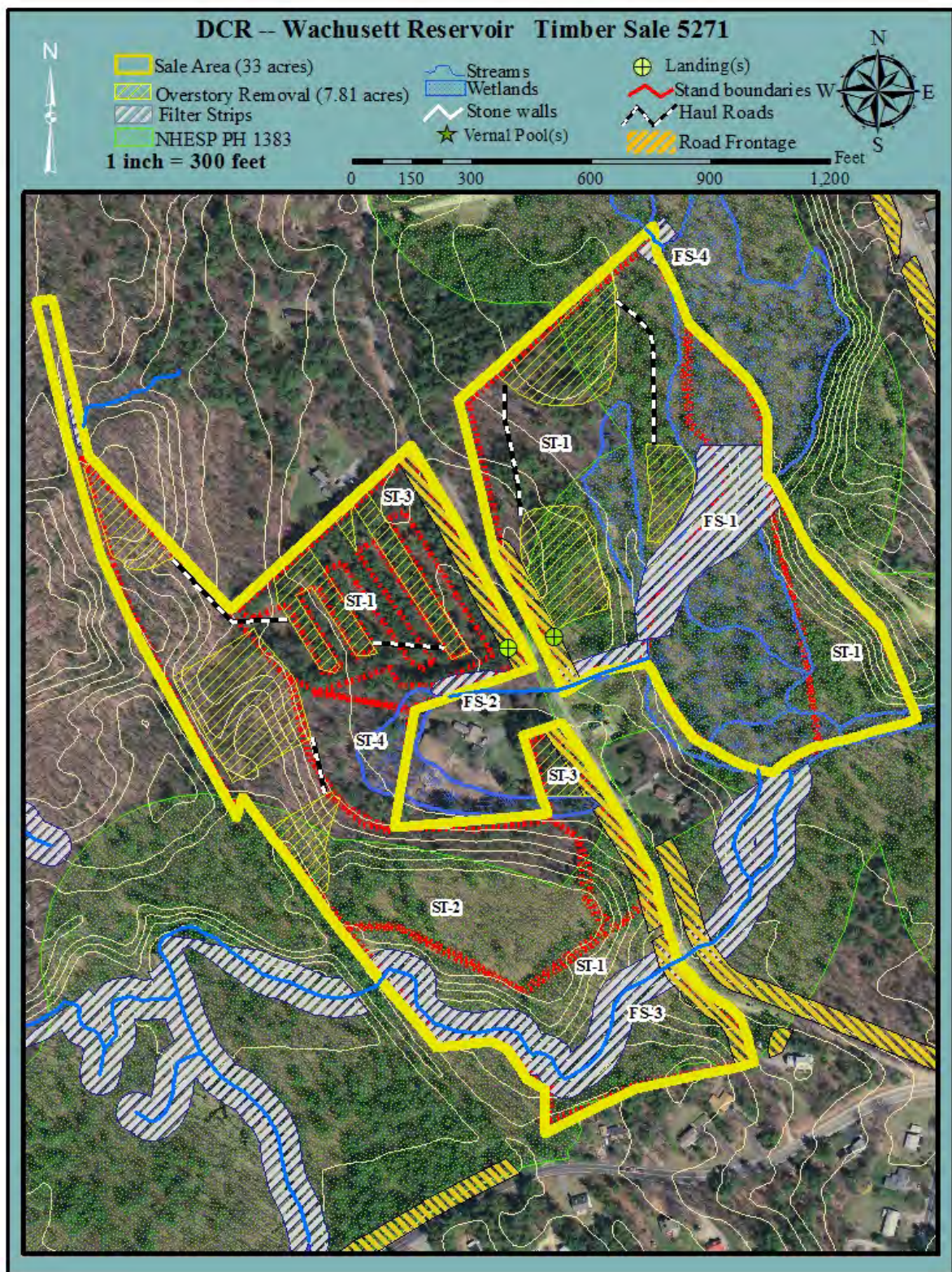


Figure 3. General locus map showing the location of the proposed timber harvest

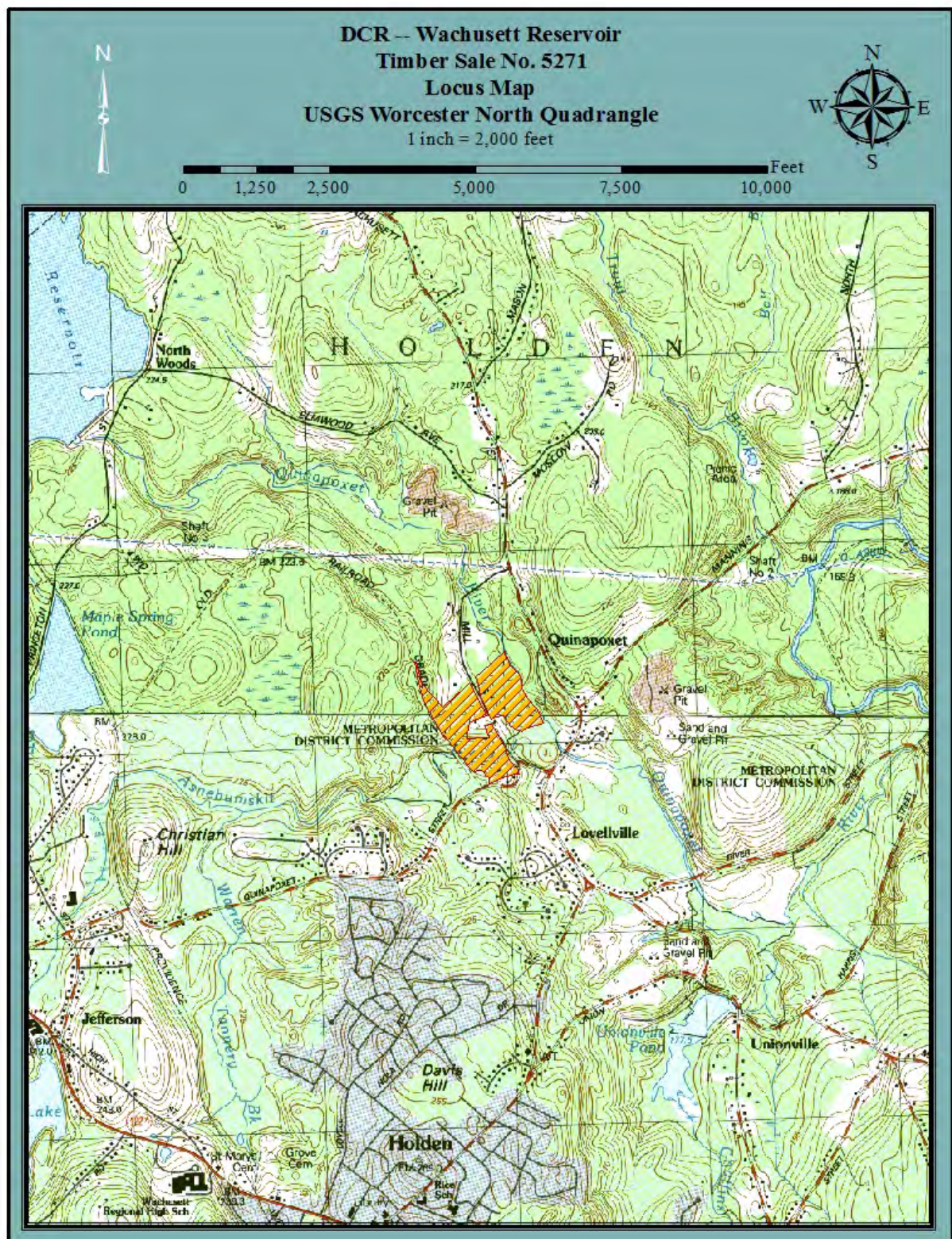


Figure 4. Pre-Harvest Photographs, A-C



A. There will be a landing on each side of Mill Street in this area.



B. One of the areas where the overstory trees are being removed in order to release this excellent understory of diverse hardwood species.



C. The white oak tree in the foreground is being retained in this overstory removal area to provide more structural diversity to this site.

5. Post-Harvest Photographs A-C.



A. Overstory removed with hardwood regeneration released.



B. Overstory removed, diverse regeneration released.



- C. White pine plantation strip removed with young mixed stands on either side retained and hardwood regeneration sprouting.