

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: 5293
DCR Forest Cutting Plan File Number:

Site Information

Watershed: Wachusett	Town(s): Princeton
Acres: 94	Nearest Road: Beaman Road
Natural Heritage Atlas overlap?: No	Public Drinking Water Supply Watershed?: Yes
Forest Types: Mixed Hardwoods, Oak Hardwoods	ACEC?: No
Soils: Mostly Woodbridge and Paxton till	
Wetland Resources: Yes	
Vernal Pools: None known	

Harvest Information

DWSP Permit Start Date: 03/31/2021	DWSP Permit End Date: 06/30/2023
Number of Wetland Crossings: 0	Number of Stream Crossings: 1

Best Management Practices Applied

Stream Crossings	Yes
Filter Strips	Yes
Wetland Crossings	No
Harvesting in Wetlands	No

DWSP Forester supervising this harvest
Name: Greg Buzzell
Forester License # 25
Phone #: 774-261-1841

NARRATIVES

General Description/Forest Composition/History:

Most of this area is a mixed hardwood stand comprised of a wide range of species including red oak, red maple, white oak, black birch, paper birch, yellow birch, black cherry, white ash and hickory (both shagbark and pignut) and sugar maple. There is even a bit of black gum in and near the wetland in the north end of the sale area. The oak/hardwood stands are similarly diverse but overall have a greater component of red oak. The understory is highly variable with areas of good advance regeneration, areas dominated by mountain laurel and areas with a variety of understory shrubs such as maple-leaved viburnum and hobblebush along with ferns. Most of this area was logged in the late 1980s when it appears a lot of white pine was removed. There are numerous stone walls throughout this area clearly indicating that this was all once pasture. One pasture, in the far south end of this sale area was abandoned in about 1920. The forests in the other wall-off pastures originated from 1935 to 1940 following abandonment.

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:

This area is the sub watershed that has been chosen for treatment in the long-term paired watershed study. As such, no more than 25% of the total stocking in this sub watershed can be removed in this operation. Given that, openings in the overstory will be made where the advance regeneration is adequate while following the rules for the green retention. Adequate advance regeneration is not evenly distributed, however. It is concentrated in the southern and western portion of the sale area which is where the openings will be concentrated as well.

Cultural Resources:

Stonewalls present.

Wildlife/Rare or Endangered Species:

None known.

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 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 _____	Case No. _____
Date Rec'd _____	Nat. Hart. _____ / _____
Earliest Start _____	Nat. Hart. Imp. _____
River Basin _____	Pub. Dr. Wat. _____
Gen. Obj. _____	ACEC _____

Site Information

Location

Town Princeton Lot 5293

Road Beaman Road

Acres 94 Proposed Start Date 9/20

Vol. MBF 141.9 Vol. Cds. 302 Vol. Tons 209

Plan Preparer

Name Gregory S. Buzzell

Address 180 Beaman Rd.

Town, State, Zip West Boylston, MA, 01583

Phone 774-261-1841

Type of Preparer Mass. Licensed Forester

*Mass. Forester License # 25

*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	CU	BR		
Existing Structure	Yes	No		
Type of Bottom	n/a	ST		
Bank Height (ft)	n/a	1		
Stabilization	OT	CO		

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		

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

Codes

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom	Note:
LF Mass. Lic. For.	CU Culvert	SE Seed	FR Frozen	LE Lodge	<p>Applicant must provide DCR with all relevant information before plan may be approved and cutting may begin.</p> <p>Some forestry activities, such as prescribed burning and pesticide or fertilizer application may require additional permits. Consult MA Forestry BMP Manual for further information.</p>
TH Lic. Tim. Har	BR Bridge	MU Mulch	DR Dry	ST Stony	
TB Timber Buyer	PO Pond	CO Corduroy	OT Other	MU Mud	
LO Landowner	PO Pond	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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Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	84.6	Red Maple	6.4
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	39.8
Hemlock		Black Oak	1.2
Spruce		White Oak	
Other Shwd.	2.1	Other Hdw.	
White Ash		Total Mbf	141.9
Beech		Cordwood (Cds)	302
White Birch		SW Pulp (Tons)	209
B & Y Birch	7.7	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	MH	OH	OR	RM
Acres	57	25	6.3	5.7
Landowner Objective	LT	LT	LT	LT
Designation of Trees	CT	CT	CT	OT
Type of Cut	SH	SH	SH	n/a
Source of Regeneration	AD	AD	AD	n/a

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

Determination and Status

Approved ☐ Disapproved ☐ Expires _____

Signature of Service Forester/Director's Agent _____ Date _____

Extension 1 ☐ 2 ☐ Expires / Ser. For. Info. /

Amendment App 1 ☐ Dis 1 ☐ App 2 ☐ Dis 2 ☐ /

Final Report and Comments

I hereby certify that the above 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 Harvest	Source of Regeneration
WP White Pine	HK Hemlock	OM Mixed Oak	CT Cut Tree	SH Shelterwood	LT Long-term Mgt.	ST Seed Tree	CT Commercial Thin	AD Advanced
WK White Birch	HC Hick Cherry	RM Red Maple	LT Leave Tree	ST Seed Tree	LT Long-term Mgt.	CC Clear Cut	NT Non Com Thin	SE Natural Seed
WH White Hardwood	BE Beech	SB Stand Boundary	OT Other	SE Selection	LT Long-term Mgt.	SA Salvage	OT Other*	PL Plant
WO White Oak	BB Black Birch	SM Sugar Maple	LT Long-term Mgt.	SA Salvage	LT Long-term Mgt.	SH Shelterwood	OT Other*	CD Coppice
RP Red Pine	OH Oak/Hdw.	SP Spruce/Fir	LT Long-term Mgt.	SH Shelterwood	LT Long-term Mgt.	ST Seed Tree	OT Other*	DS Direct Seed
SR Red Spruce	OR N Red Oak	PP Pitch Pine	LT Long-term Mgt.	SH Shelterwood	LT Long-term Mgt.	ST Seed Tree	OT Other*	OT Other

*If Other (OT) or a non-standard system is used an explanation must be given on attached narrative page

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

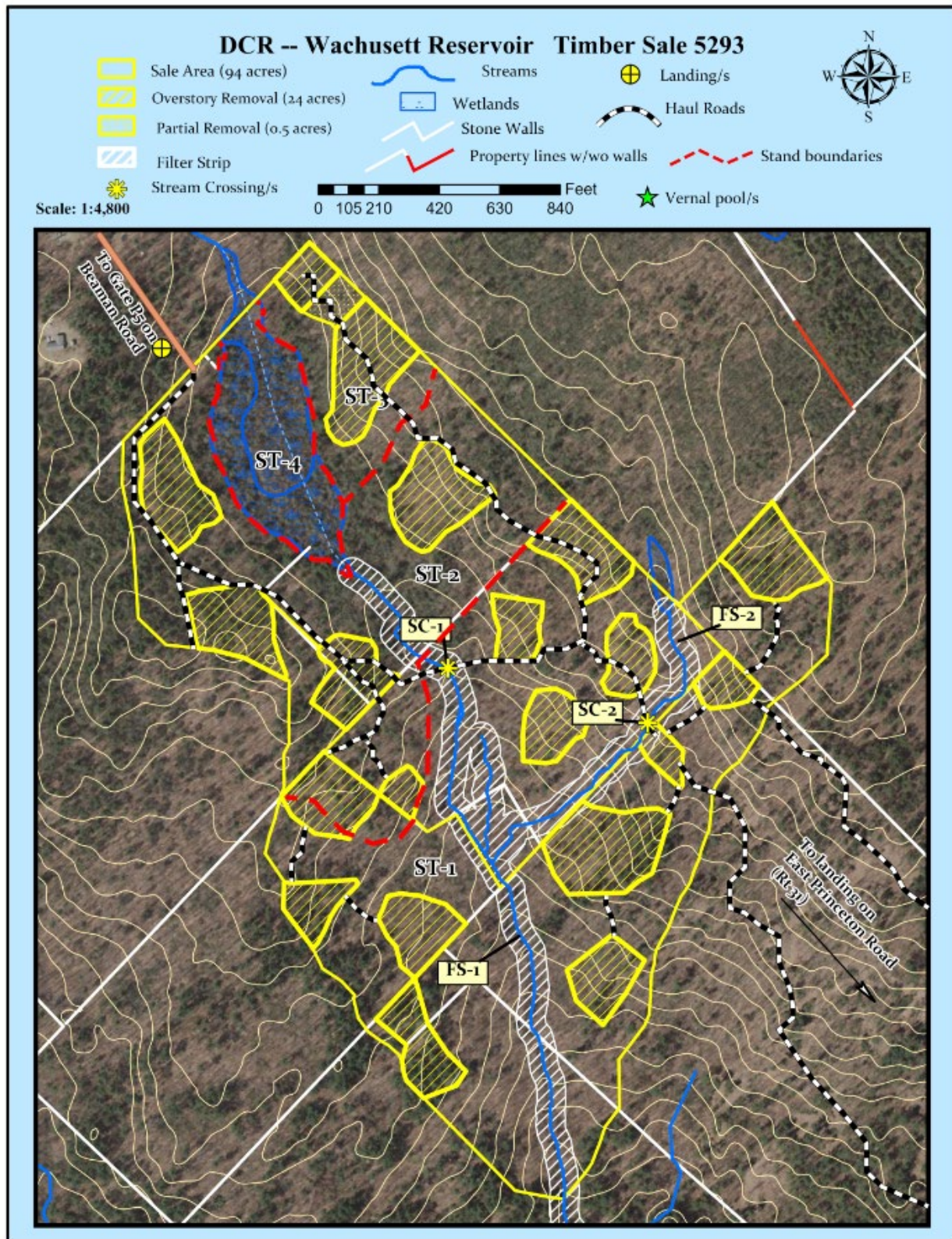


Figure 3. General locus map showing the location of the proposed timber harvest.

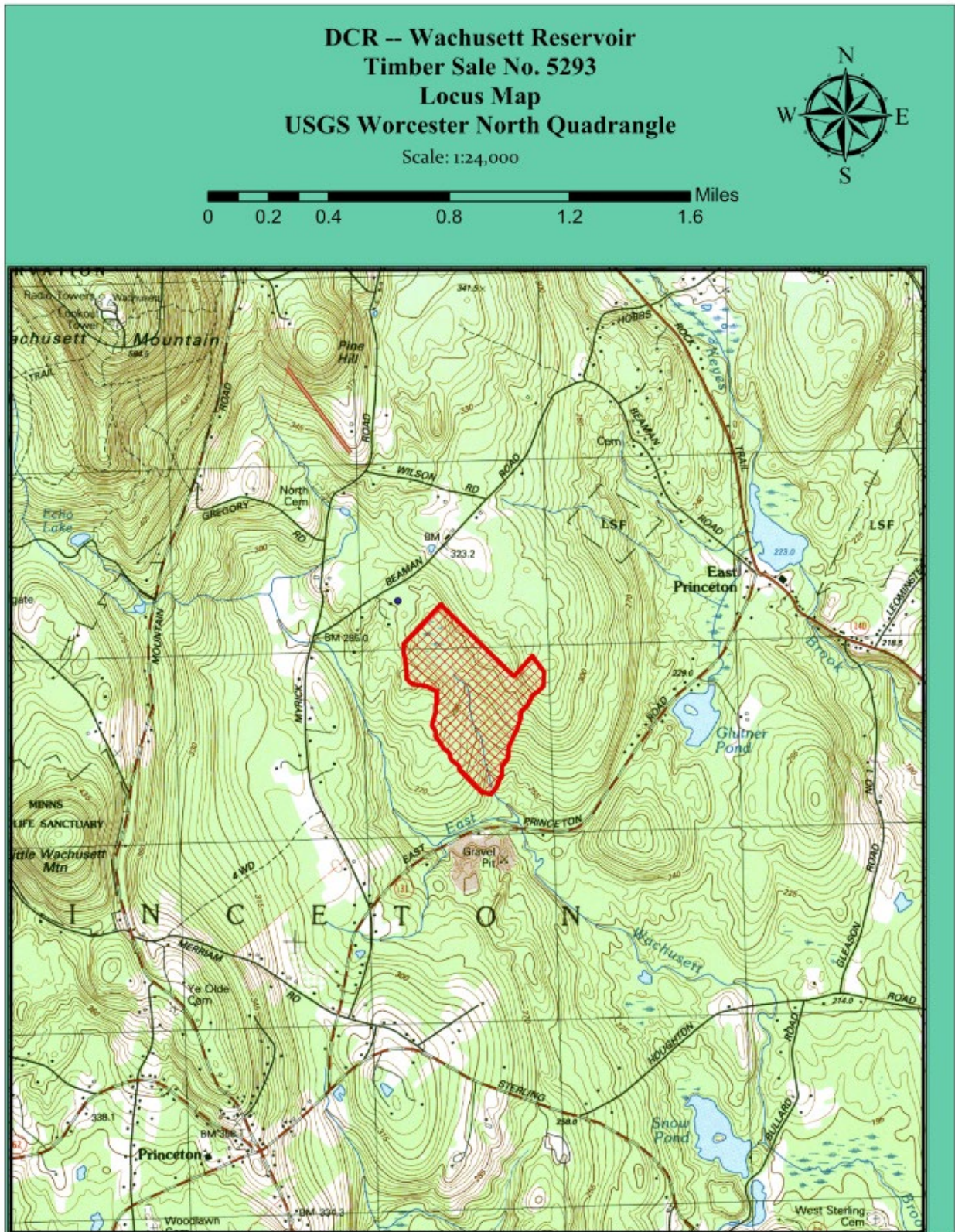


Figure 4. Pre-Harvest Photographs, A-C



A. Weir that was installed in order to monitor stream flow.



B. White pine regeneration waiting to be released along with some oak and hickory retention.



C. Large diameter white pine marked to release the mix of white pine and hardwood regeneration.