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

#### **Project Title: Lyman Johnson**

**DWSP Harvest Permit Number:** 3178 **DWSP Proposal ID:** PR-23-7 **DCR Forest Cutting Plan File Number:** 204-43039-25

#### **Site Information**

Watershed: Quabbin Town(s): New Salem Acres: 8.6 Nearest Road: Cooleyville Natural Heritage Atlas overlap?: Yes Public Drinking Water Supply Watershed?: Yes Forest Types: White Pine Red Oak, Red Oak and Mixed Oak Dry Site ACEC?: No Soils: Stony till with varying levels of sandy loam Wetland Resources: Vernal Pools: 0

#### **Harvest Information**

Harvest Start Date:TBD Harvest End Date: Before 12/14/2026 Number of Wetland Crossings: 0 Number of Stream Crossings: 0

#### **Best Management Practices Applied**

Stream Crossings: 0 Filter Strips: 0 Wetland Crossings: 0 Harvesting in Wetlands: 0

#### **DWSP** Forester supervising this harvest

Name: Derek Beard Forester License #: 14 Phone #: 617 780 0631 Email: derek.beard@mass.gov

## NARRATIVE

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

The project is located on the west side of Prescott Rd about a quarter mile (0.25) south of intersection 17-9 (locale of razed UMASS astronomy site). The harvest area covers 8.6 acres bounded to the east by stone wall, south by boundary of past harvest 3067, west by absence of old field white pine and north by seep.

Large tall low quality white pine best characterizes the project's forest composition. A complexion commonly found throughout New England and indicative of forest that colonized abandoned agricultural land. In addition to white pine, the area is home to dry site oak (scarlet, black, white and red) and small aggregation of pitch pine. Mostly confined to the coast, pitch pine inhabits isolated post-glacial sand/gravel outwashes scattered across interior MA. Ground and shrub layer flora amongst pitch pine can provide habitat for a variety of lepidoptera (butterflies and moths) that are species of concern in MA.

## **Site Selection:**

One goal of public water supply management is maintaining forest that protects high quality drinking water for current and future users. To achieve this, DWSP has determined the forest contain a diversity of species in various stages of development (seedlings through large legacy trees). This requires some active forest management designed to foster health, regeneration and greater complexity. Forest in this condition is well positioned to bolster inherent resiliency and ameliorate impacts from a range of disturbances (disease, insect infestation, ice storms and hurricanes) that climate change has exacerbated.

## **Silvicultural Objectives:**

The main goal of the harvest is to remove the low-quality old field white pine along with mature and/or low-quality oak. Post-harvest complexion will encompass randomly spaced overstory white pine, oaks, pitch pine and live/dead wildlife trees (snags). All pitch pine is being retained as a seed source for future regeneration. Overstory spacing will be broad enough to encourage vigorous regeneration development of sun loving species (oaks, white pine and hopefully pitch pine).

## **Cultural Resources:**

The project does not encompass any extraordinary cultural resources.

## **Rare or Endangered Species:**

According to the latest edition of the MA Natural Heritage & Endanger Species Atlas, the project overlaps with estimated or critical habitat area. The NHESP Program review determined that the proposed plan will not negatively impact Priority Habitat or result in Take (as defined in 321 CMR 10.02) of plant or animal species protected under the Massachusetts Endangered Species Act.

## **FIGURES**

Figure 1. Forest Cutting Plan

Figure 2. Camera Post Photos

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Town <u>New Salem</u> Road <u>Prescott Road</u> Acres <u>8.6</u>	(Gate 17 Prop	7) osed Sta	rt Date			Name <u>DCR - Div. o</u> Mailing Address <u>485</u>	of Water S Ware Rd	upply P	rotection	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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Name Derek Beard					Call S	Licensed Timber	r Harve	ster*	ĸ	
Town, State. Zin Belche	ertown. N	MA 010	07		enal y hered	Name			titing sul days	
Phone (617) 78	0-0631				1.15 38	Town, State, Zip	LEATE 12.			
Type of Preparer License	ed Fores	ster			-	Phone	1965-200		19,	
*Mass, Forester License	# 14				diffeel	Mass. Lic. Harvester #			approved	but hef
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Species	Mbf/Cds		Mbf/Cds	b	y the servic
White Pine	62.6	Red Maple	5.7		
Red Pine		Sugar Maple			Cutti
Pitch Pine		Red Oak	15.2	Int	
Hemlock	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Black Oak	2.7	ne	Indicate 1
Spruce		White Oak	0.2	atr	Forest Ty
Other Sftwd.	in derežaju	Other Hdwd.	4.4	â	Acres
White Ash	3.9	Total Mbf	96.6	F	Landowr
Beech		Cordwood (Cds)	81	g	Designat
White Birch	0.2	SW Pulp (Tons)	213	ar	Type of (
B & Y Birch	1.4	HW Pulp (Tons)		St	Source of
Black Cherry	0.3	Chips (Tons)	Sec. 1		

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s indicated in the Plan are as reported eparer and have not been independently verified forester upon approval. Mbf = thousand board feet.

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WO 🗹	Y	•	
Acres	8.6	Se werden	10. 19 miles	
Landowner Objective	LT		alta Seria	
Designation of Trees	CT 🖃	7	-	*
Type of Cut	CC 🖃	•	T	Y
Source of Regeneration	AD 💽	-	*	-

#### Landowner Signature

\_andowner

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	- Shart-to	rm Harvort
01	- 511011-10	I III II AI Y COL

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) have read the Massachuseus cutting I ian internation once, and an aware of my (our) management options. I (we) hereby 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.

and a second	A CONTRACTOR OF A CONTRACTOR		and the second se		1	iai kepu	it and commen	6
Cutting Plan	Approved	Disapprove	ed Exp	res <u>31-2</u> 6	I her and	reby certify the all relevant sta	at the afore described For atutes have been substanti	est Cutting Plan ially complied with.
Signature of	Service Forester	Director's A	gent	11. 22. 24 Date Ser. For. Ints.	Sign	nature of Servi	ce Forester/Director's Ag	;ent D
Extension Amendment	1 🗌 App 1 D	2□ Dis 1 App 2 □ □	2 Dis 2	<u></u>				
Forest WP White Pi WK WP/Hem WH WP/Hdw WO WP/Oak RP Red Pine	Types ce HK Hem HH Hem BC Blck BB Bec/ OH Oak/	olock OM //Hdwd RM : Cherry BE Bir/Map SF /Hdwd SM	Mixed Oak Red Maple Beech Spruce/Fir Sugar Maple	Designation of Trees CT Cut Tree LT Leave Tree SB Stand Boundary OT Other Landowner Objective	SH ST CC SE SA	Type of Shelterwood Seed Tree Clear Cut Selection Salvage	Cut Subscription Statement	Source of Regeneration AD Advanced SE Natural Seed PL Plant CO Coppice DS Direct Seed

# **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	New Salem	
File Number		

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. Removing low quality white pine that colonized this former open adricultural area is the primary harvest intent. Specifically

PS it's a 8.6 acre clear cut with live tree retention. Retained trees include well formed high canopy white pine, oak and pitch BM

pine as well as live and dead snags. Harvest trees are marked blue. Main skid roads are marked with blue vertical stripe.

Retention trees are marked yellow. Harvest boundary is marked with 3 yellow stripes.

Use this Section to describe the types of trees to be harvested and/or relatined 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.

	Describe Tre	es to be Cut	343 I.	Describe Tre	ees to be Lef	t	% BA	/AC
Stand No.	Species	Size	Quality	Species	Size	Quality	Cut	Lef
				S. 8 3	-			
	s all s					1		
				1.00				

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.

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	ALC: NOT	the second se	Sec. 1			
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Stand No.	Describe what the s	Des	ired Future Condition	on the harvest, including	the condition of the	e overstory & unde
Stand No.	Describe what the s	Des tand is expected to lo	ired Future Condition for the five years from	n m the harvest, including	the condition of the	e overstory & unde
Stand No.	Describe what the s	Des tand is expected to lo	ired Future Conditi ook like five years fro	m m the harvest, including	the condition of the	e overstory & unde
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Stand No.	Describe what the s	Des tand is expected to le	ired Future Conditi	on m the harvest, including	the condition of the	e overstory & unde

#### Figure 1d forest cutting plan pg. 4.





dcr Ø	COMMONWEALTH OF MASSACHUSETTS Department of Conservation and Recreation Division of State Parks and Recreation	FILE # <u>204-43039-25</u>
FORE	ST CUTTING PLAN CERTIF	ICATE
Post this in	a conspicuous place within the area in which the harvesting	operation is to take place.
This certifie	that DCR-DWSP 485 Ware ed, (Name of Owner) (Address	Belchertown, MA in accordance with the 01007
provision of	f M.G.L. Chapter 132, Section 40-46, filed in Amher	SF F.O. with the Dept. of Conservation
and Recreat	tion, Division of State Parks and Recreation, a Notice of Inter <u>3178</u> lot, New Salem	nt to cut forest products upon the
Approval Da	ate 11/2.2/24	ISSUED BY: Park Juja
DIRECTOR'S A	No.((417) 549-1677	Priscilla E. Geigis, Director Division of State Parks and Recreation

Figure 2a: Pre-Harvest Photo, Jan. 16, 2025

