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

Project Title: Red Pine Patches 122 to 62

DWSP Harvest Permit Number: 4398
DCR Forest Cutting Plan File Number: 021-9787-19

Site Information

Watershed: Ware River Watershed	Town(s): Barre
Acres: 9.7	Nearest Road: Old Worcester Rd and Granger Rd
Natural Heritage Atlas overlap?: Yes	Public Drinking Water Supply Watershed?: Yes
Forest Types: Red Pine	ACEC ¹ ?: No
Soils: 253B and E Hinckley loam sand, 254 A and C Merry	mac fine sandy loam, 925 E Charlton-Chatfield-Hollis,
and 910C Woodbridge-Paxton association	
Wetland Resources: Several streams and a wetland are in	the harvest area.
Vernal Pools present or within 200 feet of harvest : No	

Harvest Information

Harvest Start Date: 5/13/19	Harvest End Date: 12/19/19
Number of Wetland Crossings: None	Number of Stream Crossings: 2

Best Management Practices Applied

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

DWSP Forester supervising this harvest
Name: Ken Canfield
Forester License # 431
Phone #: 508-882-3636 X 1603
Email: kenneth.canfield@state.ma.us

¹ACEC: Area of Critical Environmental Concern

NARRATIVE

General Description/Forest Composition/History:

The harvest area is located in the town of Barre. It consists of several patches of mature roadside red pine scattered from Rt 62 and Granger Rd, south down Granger Rd, to Old Worcester Rd. The red pine was planted in old fields in the late 1930's.

Tree species present are red pine in the overstory, along with some red maple and red oak. The understory consists of red and white oak, eastern white pine, hemlock, black birch, red maple, and black cherry.

Glossy buckthorn and Japanese barberry are present, particularly along Old Worcester Rd. Some invasive shrubs were hand-pulled during the marking of this lot. Harvesting trees in patches puts enough sunlight on the ground to create conditions that will help native tree species out-compete invasive shrubs over time.

The soil is mostly 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 area was chosen because red pine is susceptible to mortality caused by insects and disease. Mortality is already present in several patches.

Silvicultural Objectives:

Remove mature red pine from these patches, while retaining healthy overstory trees of other species. There are ten patches that are 3.5, 2.0, 0.7, 0.7, 0.6, 0.6, 0.5, 0.5, 0.4, and 0.1 acres in size. The understory regeneration will be protected as much as possible.

Cultural Resources:

Standard practice dictates that every effort is made to avoid disturbing stone walls and other cultural resources. Several roadside walls may be affected by the removal of these trees.

Wildlife/Rare or Endangered Species:

MA DFW's Natural Heritage Endangered Species Program (NHESP) has placed operational restrictions on the 3.5 acre patch located at the intersection of Rt 62 and Granger Rd. Harvesting equipment can only be operated in that stand from 11/15 to 3/15 of any year.

FIGURES

Figure 1 Final Forest Cutting Plan

- Figure 2 A-B Pre-Harvest Photos taken from Point 1 on 7/3/19
- Figure 3 A-B Post Harvest Photos taken from Point 1 on 4/2/20
- Figure 4 A-B After 1 Growing Season Photos taken from Point 1 on 8/18/20

Figure 1 Final Forest Cutting Plan

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for	Plan Preparer					Ch61 61A 61B Stew *Case #
In	-					FSC CR CR Holder
ite	Name Kenneth W. C	anfield				Licensed Timber Harvester**
S	Address 376 Old Turns	JIKE KU				Name KING TIMBER HARVESTING
1	Town, State, Zip Oak	am, MA	01068			Address 15 RAGGED HILL RUAD
	Phone (508) 8	82-3636				Town, State, Zip HUBBARDSTON, MA 01952
	Type of Preparer LF		-			Phone (918) 960-9966
	*Mass. Forester License	# 431				Mass. Lic. Harvester # 2011 261 160
	*Required for land under	er Ch61, C	h61A or 1	Forest St	ewardshi	p work begins.
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Products	to be Ha	arvested*	_	*No by	te: Volumes indicated in the plan preparer and ha	the Plan a ve not been approval.	n independe Mbf = tho	ed antly verified	
Species	Mbf/Cds	-	Mbf/Cds	by	the service forester upon			- onard	1 Store
White Pine		Red Maple	2 Cds		e uting Standa	rds			
Red Pine	127.8 Mbf	Sugar Maple			Cutting Stands				
Pitch Pine		Red Oak		C.		I on 1	ST-2	ST-3	ST-4
Hemlock		Black Oak	· · · · ·	Ĕ	Indicate location on map	SI-I	DD	-	
Spruce		White Oak		ati	Forest Type	RP	INF 62		
Other Sftwd.		Other Hdwd.		ě	Acres	3.5	0.2		
White Ash		Total Mbf	127.8 Mbf	F	Landowner Objective	LT	OT	t	
Beech		Cordwood (Cds)	9	g	Designation of Trees	CT		1	
White Birch		SW Pulp (Tons)	110	ğ	Type of Cut	CC	DE	+	1
B & Y Birch	2 Cds	HW Pulp (Tons)		S	Source of Regeneration	AD	SE		1
Black Cherry	5 Cds	Chips (Tons)							
- Diack Cherry	0 000	Chips (1 only							
The most import which will remain Massachusetts I I LT Planned mana following obj income, enha protect soil at I (we) have read I (we) hereby cc I (we) hereby cc I (we) hereby cc I (we) certify the abutters of record I (we) understant upon approval at Signature of land	tant informa ain; this dec Forest Cuttin - Long-ter agèment of t ectives: pro- nce wildlife ad water qua the Massad artify that I (at I (we) have d within two ad will repor- lowner(s)	ation on a cutting ision will also de ing Plan Information m Forest Manag the forest to achieve duce immediate an habitat, improve ality, or produce for chusetts Cutting P (we) have the legative on bundred feet of olumes in this pla ort final values and Status	plan is the L termine the on Sheet on p ement we one or mon and maximize recreational orest special lan Informat l authority to nservation C the area to b n have not b d volumes to	andowner' future cor page one, in one of the e long-term opportunit ty products tion Sheet, o carry out Commission be harveste peen indepen o the Direct	s objective, as this will d adition of the forest for ndicate your objective by Harvest of tree short-term incc ies, improving the in a forest dom and am aware of my (ou the operation described n in the town in which th d. mdently verified by the s tor or his/her agent if the Final Report	etermine v decades t v checking ST - Short s with the image with n future fore inated by r) manage above. the operation service for final figur Date and Co	which trees o come. A: the approp term Har main intent inimal con st condition poor quality ment option n is to take ester res differ fi -20 -10 mment	will be had filer having riate box b vest ion of pro- usideration n, which o y and low ns. place and rom those ?	ducing given to ften results value specie the
Ap Cutting Plan	proved	Disapproved	Expires 2/26/21 3/1 Date es Ser.	- 9119 . For. Ints.	I hereby certify that the and all relevant statut	he afore des es have be gut forester/Di	scribed Fore n substantia rector's Age	st Cutting F Ily complie	lan d with. <u>12 23 1</u> Date
Extension Amendment DS LANDING Forest Types VP White Pine VK WP/Hem VH WP/Hem	HK Hemloc HH Hemloc HH Hemloc	2 1 App 2 Dis 1 1 1 1 1 1 1 1 App 2 Dis 1 1 1 1 App 2 Dis 1	2 <u>Designati</u> ak CT Cu le LT Let SB Sta	/	Type of Cur SH Shelterwood I ST Seed Tree C CC Clear Cut N	t ntermediate T Commer TT Non Con	Supervises: Cial Thin n Thin 1 Sustement	ource of Rege AD Advan SE Nature PL Plant CO Convoi	meration ced I Seed
VO WP/Oak P Red Pine R Red Spruce *If Ot	BB Bee/Bir OH Oak/Hd OR NRed (her (OT) or	/Map SF Spruce/Fi wd SM Sugar Ma Jak PP Pitch Pine a non-standard sy	a br of of ple <u>Landown</u> to LT Lo ST Sh ystem is used	ner Dier Objective Ing-term Mgt ort-term Har. I an explan	SE Selection F SA Salvage F SN Sanitation I ation must be given on a	IG Highgra DL Diamete DT Other*	de* r Liihit* urrative pag	DS Direct OT Other	Seed 4 of 5

Forest Cutting Plan

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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	Barre
File Number	021-9787-19

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.

This harvest is comprised of several patch cuts to remove sawlog size Red Pine plantations. The largest patch (ST -1) is 3.5 acres and is located at the intersection of Rt 62 and Granger Rd. There are also patches (ST - 2) of 0.7, 0.6, 0.4, and 0.6 acres located further south adjacent to Granger Rd. There are patches (St - 2) of 0.5, 0.1, 0.7, 0.5, and 2.0 acres located adjacent to Old Worcester Rd. A forwarder will be used to forward wood across the two existing culverted road crossings to access roadside landings.

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.

	Describe Tre	es to be Cu	t ·	Describe Tree	es to be Let	ft	% BA/AC
Stand No.	Species	Size	Quality	Species	Size	Quality	Cut Left
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				·			
			•				
	· ·	· ·				· · · · · · · · · · · · · · · · · · ·	
						· . ·	

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	
	[
		Desired Enture Condition	
Stand No.	Describe what	the stand is expected to look like five years from the harvest, including the condition of the overstory	& und
Stand No.	Describe what	the stand is expected to look like five years from the harvest, including the condition of the overstory of	& und
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Stand No.	Describe what	the stand is expected to look like five years from the harvest, including the condition of the overstory of	& und









441 Wheelright Rd Barre, MA 01005 3/18/19

Kenneth Canfield Watershed Forester MA DCR DWSP 578 Old Turnpike Rd Oakham, MA 01068

Dear Ken:

I recommend that you remove all the roadside red pine on your upcoming timber harvest (file # 021-9787-19) on Granger and Old Worcester Rd. in Barre. Leaving trees in the visual buffer that will succumb to insects and disease only poses a hazard to public safety.

Sincerely, 12 Jason Pimental

Superintendent

1

Town of Barre Highway Division

dcr Ø	COMMONWEALTH OF MASSACHUSETTS Department of Conservation and Recreation Division of State Parks and Recreation	FILE # <u>021-9787-19</u>
FORE	ST CUTTING PLAN CERTII	FICATE
ost this in	a conspicuous place within the area in which the harvesting	operation is to take place.
ost this in his certifie	a conspicuous place within the area in which the harvesting s that DCR-DWSP 485 WARE RD (Name of Owner) (Address	operation is to take place. BELCHERTOWN in accordance with the NA 01007
ost this in his certifie rovision of	a conspicuous place within the area in which the harvesting s that DCR-DWSP 485 WARE RD (Name of Owner) (Address f M.G.L. Chapter 132, Section 40-46, filed inCL	operation is to take place. BELCHERTOWN in accordance with the MA 01007 with the Dept. of Conservation
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Figure 2 A-B Pre-Harvest Photos taken from Point 1 on 7/3/19

A. Photo from Point 1 on 7/3/19 to the NE



B. Photo from Point 1 on 7/3/19 to the SE



Figure 3 A-B Post Harvest Photos taken from Point 1 on 4/2/20

A. Photo from Point 1 on 4/2/20 to the NE



B. Photo from Point 1 on 4/2/20 to the SE



Figure 4 A-B After 1 Growing Season Photos taken from Point 1 on 8/18/20



A. Photo from Point 1 on 8/18/20 to the NE

B.Photo from Point 1 on 4/2/20 to the SE

