

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: Salvage Sale S 13 NQ
DCR Forest Cutting Plan File Number: 204-27829-20

Site Information

Watershed: Quabbin	Town(s): New Salem
Acres: 19	Nearest Road: Cooleyville, Gate 17
Natural Heritage Atlas overlap?: Yes	Public Drinking Water Supply Watershed?: Yes
Forest Types: Red Pine/Norway Spruce	ACEC?: No
Soils: Gneiss derived rock sandy loam	
Wetland Resources: No	
Vernal Pools present or within 200 feet of harvest?: Yes	

Harvest Information

Harvest Start Date: June, 23, 2020	Harvest End Date: June 30, 2022
Number of Wetland Crossings: None	Number of Stream Crossings: 1

Best Management Practices Applied

Stream Crossings	1
Filter Strips	1
Wetland Crossings	None
Harvesting in Wetlands	None

DWSP Forester supervising this harvest
Name: Derek Beard
Forester License # 14
Phone #: 617-780-0631
Email: derek.beard@mas.gov

ACEC: Area of Critical Environmental Concern

NARRATIVE

General Description/Forest Composition/History:

This watershed forestry project covers 19 acres of red pine amid the larger norway spruce plantation bisected by Doubleday Rd (aka Mt. Pleasant Rd.) located in the Mt. Pleasant section of the Prescott peninsula.

All areas were thinned in the early 1990s. Beginning in the mid 2000s, red pine throughout the watershed, began rapidly declining/dying from a red pine scale infestation; a microscopic insect that pierces the tree's needles; disrupting photosynthesis which leads to mortality (browning of needles throughout the tree crown).

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. In order to achieve this, DWSP has determined that the forest should contain a diversity of species in various stages of development (seedlings through large legacy trees). In addition, the forest should be vigorous; actively growing and regenerating. Forest in this condition is ideally suited to be resilient to and quickly recover from small and large scale disturbances such as disease, insect infestation, ice storms and hurricanes. Young forest is significantly underrepresented in the Mt. Pleasant area. Therefore, some regeneration harvesting is merited.

Silvicultural Objectives:

Harvest purpose is to ameliorate further red pine mortality by removing the remaining plantations and spur germination/growth of a young, native forest age class. Achievement of these objectives should lead to a more diverse resilient forest over the long term.

Cultural Resources:

Stone walls are the most prominent cultural resource in the project area. There are also two field stone wells, several house foundations and a barn foundation.

Wildlife/Rare or Endangered Species:

Maintaining and/or enhancing habitat is a high priority when planning and executing watershed forest management projects. As such, retaining live and dead snags, trees that show sign of use by wildlife for nesting/denning, scenting and foraging is a priority. Falling in a natural heritage bubble, the project area was reviewed by MA Natural Heritage and Endanger Species program and deemed to have no impact on the specie(s) within the bubble.

FIGURES

Figure 1. Forest Cutting Plan

Figure 2. Photos

Figure 1: Cutting Plan

05-08-20P12:56 RCVD

Forest Cutting Plan

and Notice of Intent under M.G.L.
Chapter 132 – The Forest Cutting
Practices Act, 304 CMR 11.00
(Effective Date: 3/15/16)

For DCR Use Only:

File Number <u>204-27829-20</u>	Case No. <u> </u>
Date Rec'd <u>5-8-20</u>	Nat. Hert. <u>Yes</u>
Earliest Start <u>5-26-20</u>	Pub. Dr. Wat. <u>Yes</u>
River Basin <u>Chicopee</u>	ACEC <u>No</u>
Gen. Obj. <u>LT</u>	

Location

Town New Salem

Road Doubleday Rd (aka Mt. Pleasant Rd.)

Aces 19 Proposed Start Date

Vol. MBF 272 Vol. Cds. 56 Vol. Tons 250

Plan Preparer

Name Derek Beard

Address 485 Ware Rd.

Town, State, Zip Belchertown, MA 01007

Phone (617) 780-0631

Type of Preparer LF

*Mass. Forester License # 14

*Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name DCR - Div. of Water Supply Protection

Mailing Address 485 Ware Rd

Town, State, Zip Belchertown, MA 01007

Phone 413-323-6921

Ch61 ☐ 61A ☐ 61B ☐ Stew ☐ *Case #

FSC ☐ CR ☐ CR Holder

Licensed Timber Harvester**

Name

Address

Town, State, Zip

Phone

Mass. Lic. Harvester #

**This information may be supplied after the plan is approved, but before work begins.

Stream Crossings

Indicate location on map	SC-1	SC-2	SC-3	SC-4
Type of Crossing	CU			
Existing Structure	YES			
Type of Bottom	ST			
Bank Height (ft)	4'+			
Stabilization	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			

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

X Heritage - No Impact - See Attached

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. Some forestry activities, such as prescribed burning and pesticide or fertilizer application may require additional permits. Consult MA Forestry BMP Manual for further information.
TH Lic. Tim. Har	BR Bridge	MU Mulch	DR Dry	ST Stony	
TB Timber Buyer	FO Ford	CO Corduroy	OT Other	MU Mud	
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	12	Red Maple	1.3
Red Pine	245	Sugar Maple	
Pitch Pine		Red Oak	0.5
Hemlock		Black Oak	2.6
Spruce	5.4	White Oak	
Other Sftwd.		Other Hdwd.	0.5
White Ash	3.1	Total Mbf	272
Beech		Cordwood (Cds)	56
White Birch	0.2	SW Pulp (Tons)	250
B & Y Birch	0.5	HW Pulp (Tons)	
Black Cherry	1.1	Chips (Tons)	

*Note: Volumes 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	SF/RP	SF/RP	RP	SF/RP
Acres	2.1	2.7	2.4	5
Landowner Objective	LT	LT	LT	LT
Designation of Trees	CT	CT	CT	CT
Type of Cut	SA	SA	SA	CC
Source of Regeneration	SE	SE	SE	SE

*Cont'd on narrative
Pg

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 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

5-5-2020

Determination and Status

Approved ☒ Disapproved ☐ Expires 5.8.22

Cutting Plan ☒ ☐ 5.27.20

Signature of Service Forester/Director's Agent Date

Extension 1 ☐ 2 ☐ Expires 1 Ser. For. Ints. 1

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

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

10-7-20

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

BMPs

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.

Project intent is to remove red pine plantations which have all experienced some level mortality (in some locales upwards of 50%) from red pine scale and associated fungus. Within these red pine areas, spruce, white pine and larch have been retained for future forest complexity. In addition, most large live/dead snags have been retained for their wildlife value. Trees to be harvested are marked with blue paint and main skid roads are marked with orange paint.

Designation of Trees

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.

Stand No.	Describe Trees to be Cut			Describe Trees to be Left			% BA/AC	
	Species	Size	Quality	Species	Size	Quality	Cut	Left

Regeneration & Future Condition

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.

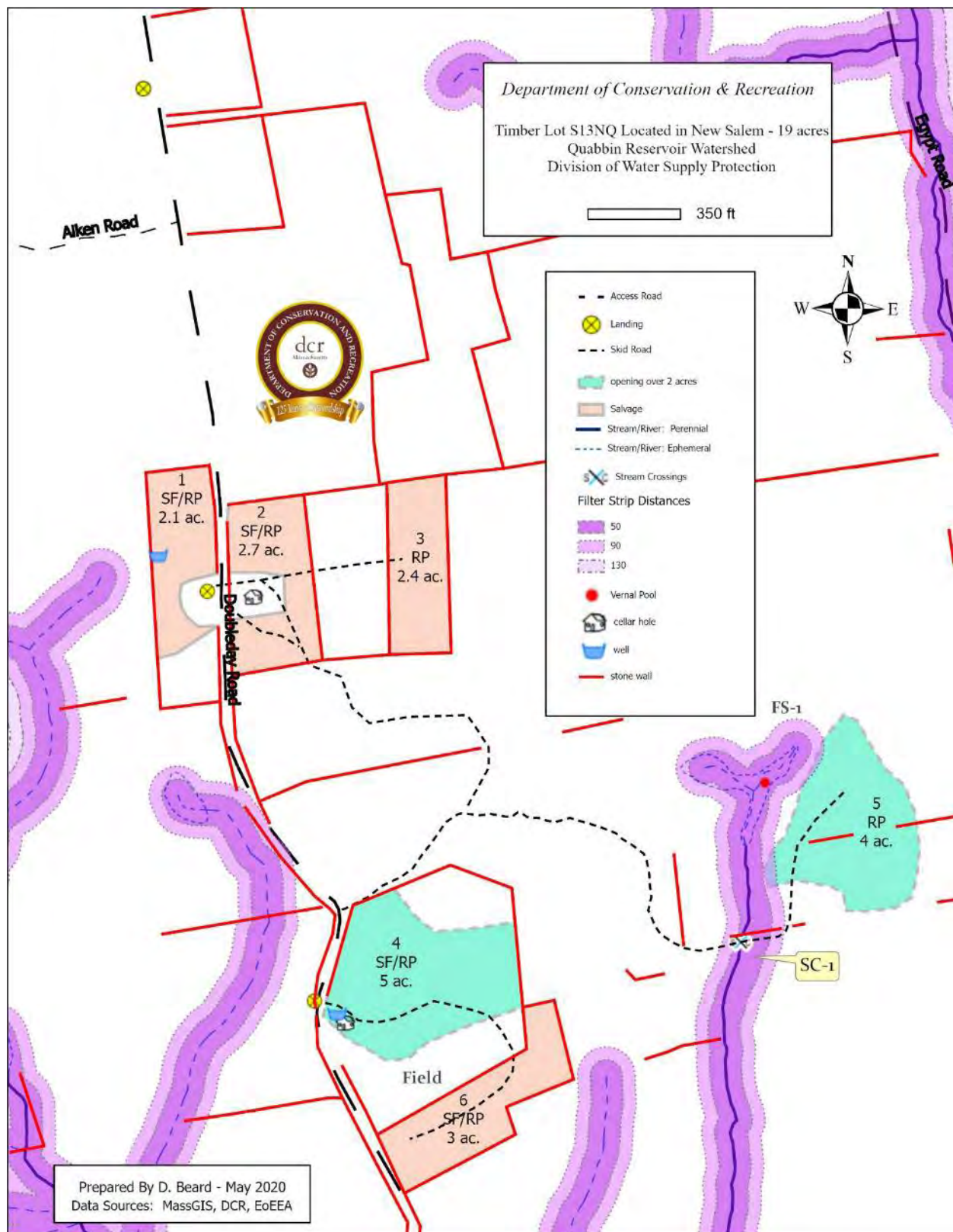
Stand No. Source of Regeneration (ex. AD, SE) How will Regeneration be obtained/protected?
If using AD - Describe the species present and how the regeneration will be protected
If using SE - Describe the source of the seed and the number of seed trees/acre

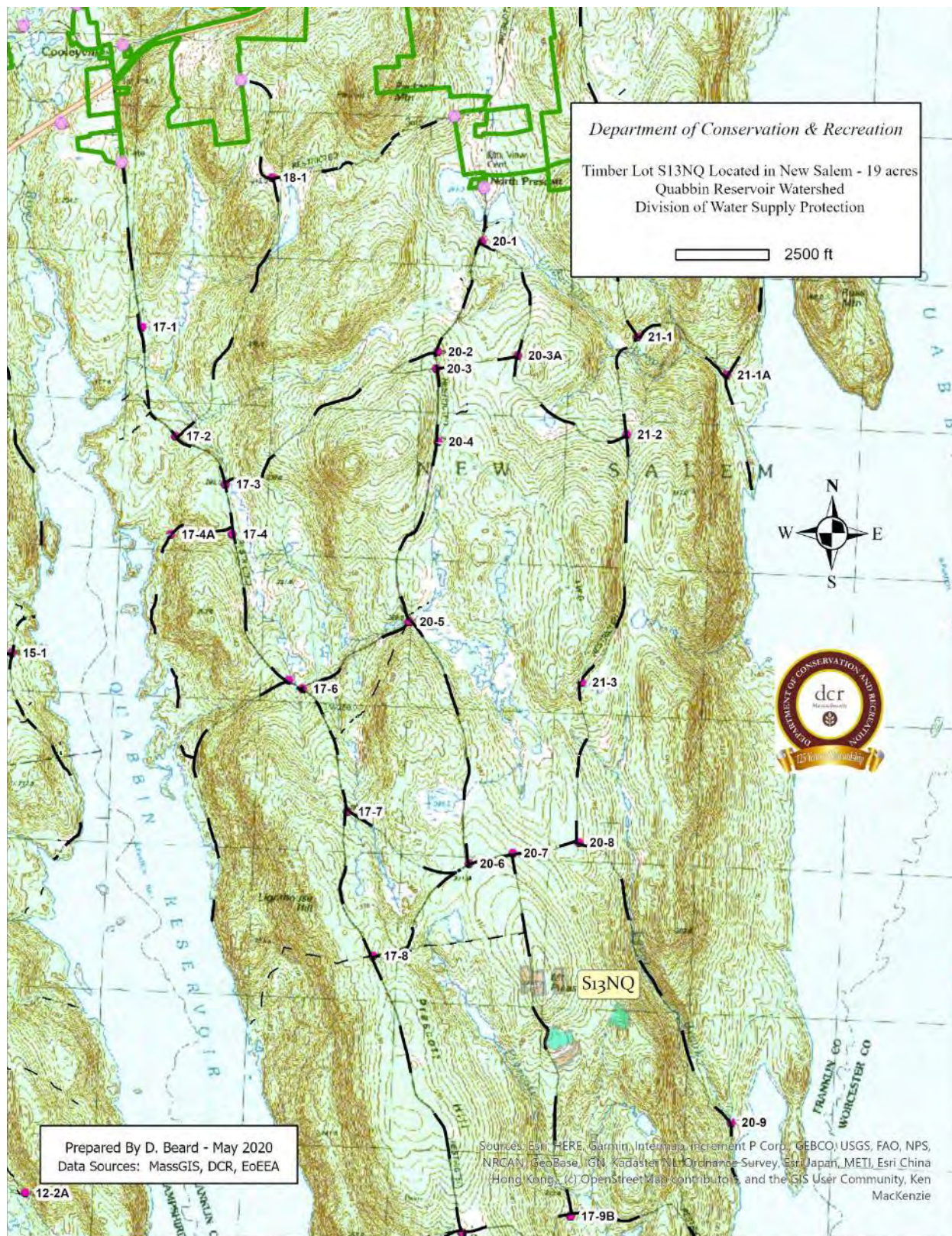
* Cont'd from Stand 1x

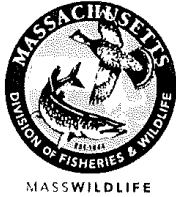
5	SE	RP 4 ac. CC LT CT
6	SE	RP 3 ac. CC LT CT

Stand No. Desired Future Condition

Describe what the stand is expected to look like five years from the harvest, including the condition of the overstory & understory







DIVISION OF FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581
p: (508) 389-6300 | f: (508) 389-7890
MASS.GOV/MASSWILDLIFE

Andrew Rawcliffe
40 Cold Storage Drive
P.O. Box 484
Amherst, MA 01004

Cutting Plan No.	204-27829-20
NHESP Tracking No.	20-39382
Town	New Salem
Road	Doubleday (Mt Pleasant)
Landowner	DCR-DWSP
Preparer	Derek Beard
Date	May 21, 2020

Dear Andrew,

The Natural Heritage and Endangered Species Program (NHESP) of the Massachusetts Division of Fisheries and Wildlife ("the Division") has reviewed the above-referenced Forest Cutting Plan ("the Plan") pursuant to the special approval procedures of the Forest Cutting Practices Regulations (304 CMR 11.04(6)). Based on details of the Plan and information in our database, the Division does not expect activities proposed in the Plan to negatively impact Estimated Habitat or result in **Take** (as defined in 321 CMR 10.02) of plant or animal species protected under the Massachusetts Endangered Species Act (MESA) (M.G.L. c. 131A) and its implementing regulations (321 CMR 10.00). Therefore, the Division does not require that the Plan be modified at this time.

Please copy the Division on any proposed amendment, extension and on the approved Plan for the site. If you have any questions about this letter, please contact Rebekah Zimmerer at (508) 389-6354 or Rebekah.zimmerer@mass.gov.

Sincerely,

A handwritten signature in cursive script, reading "Everose Schlüter".

Everose Schlüter, Ph.D.
Assistant Director

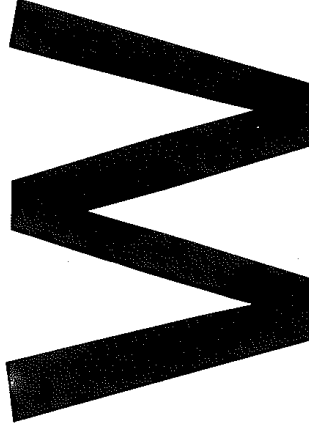
Cc: New Salem Conservation Commission

MASSWILDLIFE



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

FILE # 204-27829-20



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 485 Wave Rd, Belchertown, MA 01007 in accordance with the
(Name of Owner) (Address)

provision of M.G.L. Chapter 132, Section 40-46, filed in Amherst F.O. with the Dept. of Conservation
and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the
Doubleday Rd lot.

Approval Date 5/27/2020
Director's Agent Andrew Rauchette
DCR Phone No. 617-549-1677

ISSUED BY: Priscilla E. Geigis

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



Pre-harvest, June 2020



Post harvest, August 2020



1 year after harvest, June 2021