

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: 3151
DCR Forest Cutting Plan File Number: 204-9094-18

Site Information

Watershed: Quabbin	Town(s): New Salem
Acres: 65	Nearest Road: Cooleyville, Gate 17
Natural Heritage Atlas overlap?: Yes	Public Drinking Water Supply Watershed?: Yes
Forest Types: White Pine, Mixed Oak	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: November, 28, 2017	Harvest End Date: December 6, 2019
Number of Wetland Crossings: None	Number of Stream Crossings: None

Best Management Practices Applied

Stream Crossings	None
Filter Strips	1 filter strip; 100 ft. wide
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@state.ma.us

NARRATIVE

General Description/Forest Composition/History:

This watershed forest management project covers 65 acres of upland amid and 2/3s the way down the Prescott Peninsula. Specifically, it's about 1 ½ miles south of the old UMASS observatory site on the east side of the gate 17 Road. It's bounded to the north by forest type change, wetland and brook, to the east by forest type change and old property line, to the south by forest type change, intermittent brook, wetland and stone wall and to the west by the gate 17 road.

The project is concentrated in a 30 acre section of average to low quality white pine. The worse of the pine has cabbage type form indicative of trees growing in an open environment typically associated with agricultural abandonment. Much of the area has a robust understory of mostly white pine and a scattering of black birch saplings that developed following a light thinning in the late 1980s.

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. Sufficient advanced regeneration coupled with an underrepresented young for layer merits some regeneration harvesting.

Silvicultural Objectives:

The project has a dual objective of removal of low quality timber and diversification of forest structure. This will be accomplished by creating openings (a.k.a. patches) in the forest canopy. Specifically, this project has 6 openings ranging between 0.75 and 2 acres with an average of 1.3 acres. Openings greater than 0.5 acres have retention trees which will add to future forest complexity.

Cultural Resources:

Myriad stone walls typical of the new england forest landscape.

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.

Adjacent to the north harvest boundary is a vernal pool; a seasonal wetland that provides breeding habitat for amphibious and invertebrate organisms.

FIGURES

Figure 1. Forest Cutting Plan

Figure 2. Pre-Harvest Photographs and Post Harvest Photographs

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 204-9894-18 Case No. _____
Date Rec'd 11/11/17 Nat. Hert. 11/6/17
Earliest Start 11/17/17 Nat. Hert. Imp. _____
River Basin Chicopee Pub. Dr. Wat. _____
Gen. Obj. LT ACEC _____

Final (2/18)

Site Information

Location Timber Lot 3151

Town New Salem
Road Cooleyville Rd. (Gate 17)
Acres 65 Proposed Start Date _____
Vol. MBF 109.4 Vol. Cds. 85 Vol. Tons 496

Plan Preparer

Name Derek Beard
Address DCR - Div. of Water Supply Protection
21 Elm St.
Town, State, Zip New Salem, MA 01355
Phone 978-544-6343
Type of Preparer LF
*Mass. Forester License # 14
*Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name DCR - Division of Water Supply Protection
Mailing Address 485 Ware Rd.
Town, State, Zip Belchertown, MA 01007
Phone 412-323-6921
Ch61 ☐ 61A ☐ 61B ☐ Stew ☐ *Case # _____
CR ☐ CR Holder _____

Licensed Timber Harvester**

Name Wagner Wood
Address 305 Northeast St.
Town, State, Zip Amherst, MA 01002
Phone 413-253-5194
Mass. Lic. Harvester # 2018-775 + 393
**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)	<u>NAR</u>			

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	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 Food	CO Corduroy	OT Other	MU Mud	
LO Landowner	PO Piled	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

Products to be Harvested* Timber Lot 3151

Species	Mbf/Cds		Mbf/Cds
White Pine	91.4	Red Maple	6.7
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	5.0
Hemlock		Black Oak	4.8
Spruce		White Oak	0.4
Other Sftwd.		Other Hdw.	
White Ash	0.9	Total Mbf	109.4
Hech		Cordwood (Cds)	85
White Birch		SW Pulp (Tons)	496
B & Y Birch		HW Pulp (Tons)	
Black Cherry	0.2	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	WP	WP	OH	WH
Acres	26	3	3	14
Landowner Objective	LT	LT	N/A	N/A
Designation of Trees	CT	CT	N/A	N/A
Type of Cut	SE	SE	N/A	N/A
Source of Regeneration	SE/AD	SE	N/A	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.

Sean Libbey
Signature of landowner(s)

10-24-17
Date

Determination and Status 204-9094-18

Approved ☒ Disapproved ☐ Expires 11/1/19

Cutting Plan ☒ Sean Libbey 11/20/2017

Signature of Service Forester/Director's Agent

Date

Extension ☐ 1 ☐ 2 ☒ Expires

Sec. 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.

Sean Libbey
Signature of Service Forester/Director's Agent

2-28-2018
Date

Forest Types	HK	Hemlock	OM	Mixed Oak	Designation of Trees	Type of Cut	Intermediate Harvests	Source of Regeneration
WP White Pine	WH	Hem/Hdw	RM	Red Maple	CT Cut Tree	SH Shelterwood	CT Commercial Thin	AD Advanced
WK WP/Hem	WC	Black Cherry	BE	Beech	LT Leave Tree	ST Seed Tree	NT Non-Com Thin	SE Natural Seed
WH WP/Hdw	BB	Bee/Hm/Map	SF	Spruce/Fir	SB Stand Boundary	CC Clear Cut	Non-Standard Systems*	PL Plant
WO WP/Oak	OH	Oak/Hdw	SM	Sugar Maple	OT Other	SE Selection	HC Highgrade*	CO Coppice
RP Red Pine	OR	N Red Oak	PP	Pitch Pine	Landowner Objective	SA Salvage	DI Diameter Limit*	D5 Direct Seed
SR Red Spruce					LT Long-term Mgt.	SN Sanitation	OT Other*	OT Other
					ST Short-term Har			

*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: 1/1/04)

Use this page to provide further explanation or if Other (OT) was used in any category on pages 3 or 4.
Timber Lot 3151

Landowner DCR-DWSP-Quab

Town New Salem

File Number 204-9094-18

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.

This project covers the white pines stands (29 acres) of the management area (65 acres). There are six openings encompassing a total area of 8 acres. Openings range between 0.7 to 2 acres in size with an average of 1.3. All openings have some retention (min. 5 sq. ft. of basal area per acre) which include dead standing trees. The landing and main skid roads are marked in yellow paint. All openings, except one (southern most), are marked in orange paint. The southern most opening is marked in yellow paint. Harvest boundary is a mix of flagging and triple striped paint marking.

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.

Stand No.	Species to be Cut	Size of Trees to be Cut	Quality of Trees to be Cut	% BA/Acre Removed

Regeneration & Future Condition

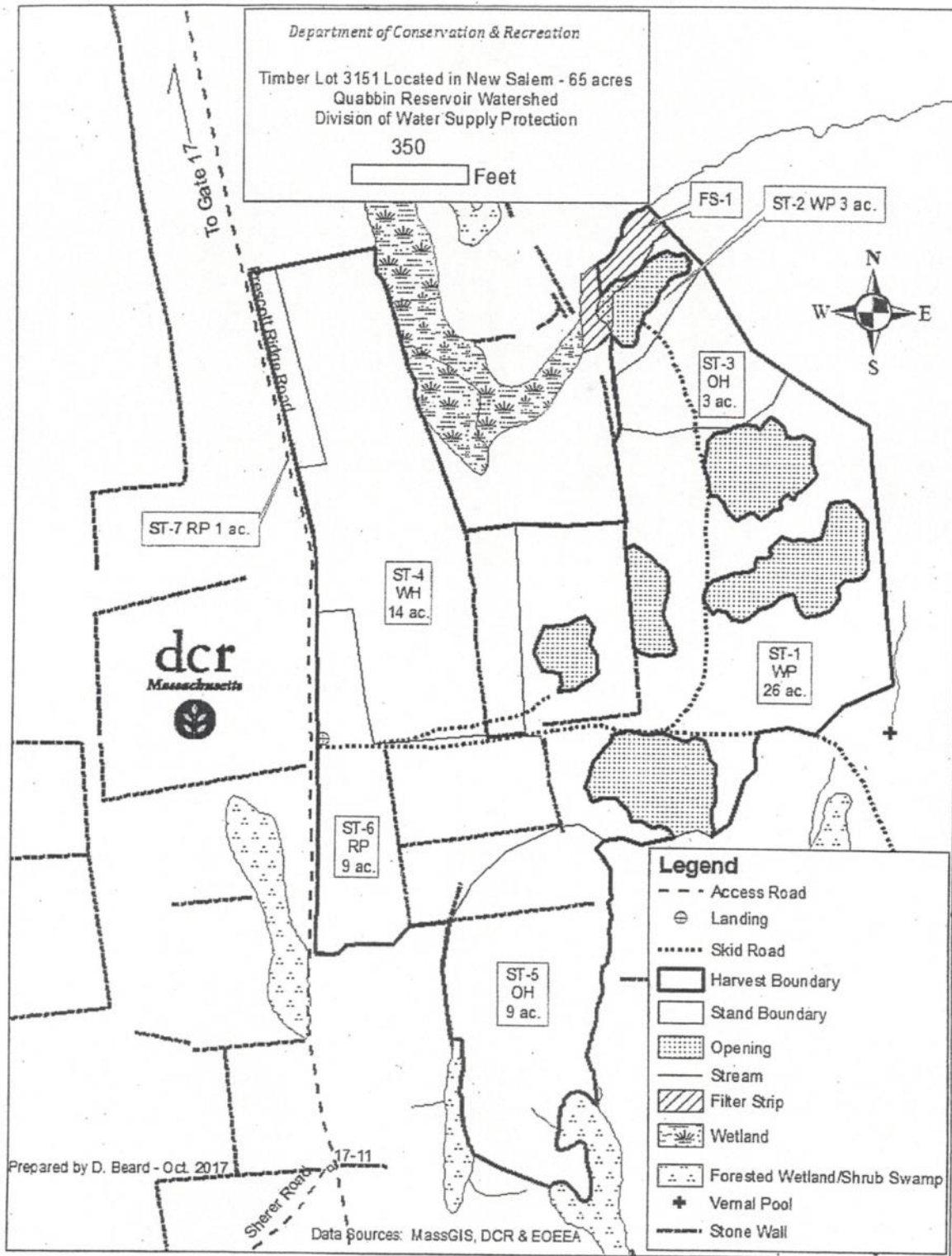
Use this Section to describe how Chapter 132 requirements will be met if a non standard system (HG, DL, or OT) was used for the "Type of Cut" in the Cutting Standards Section on page 4.

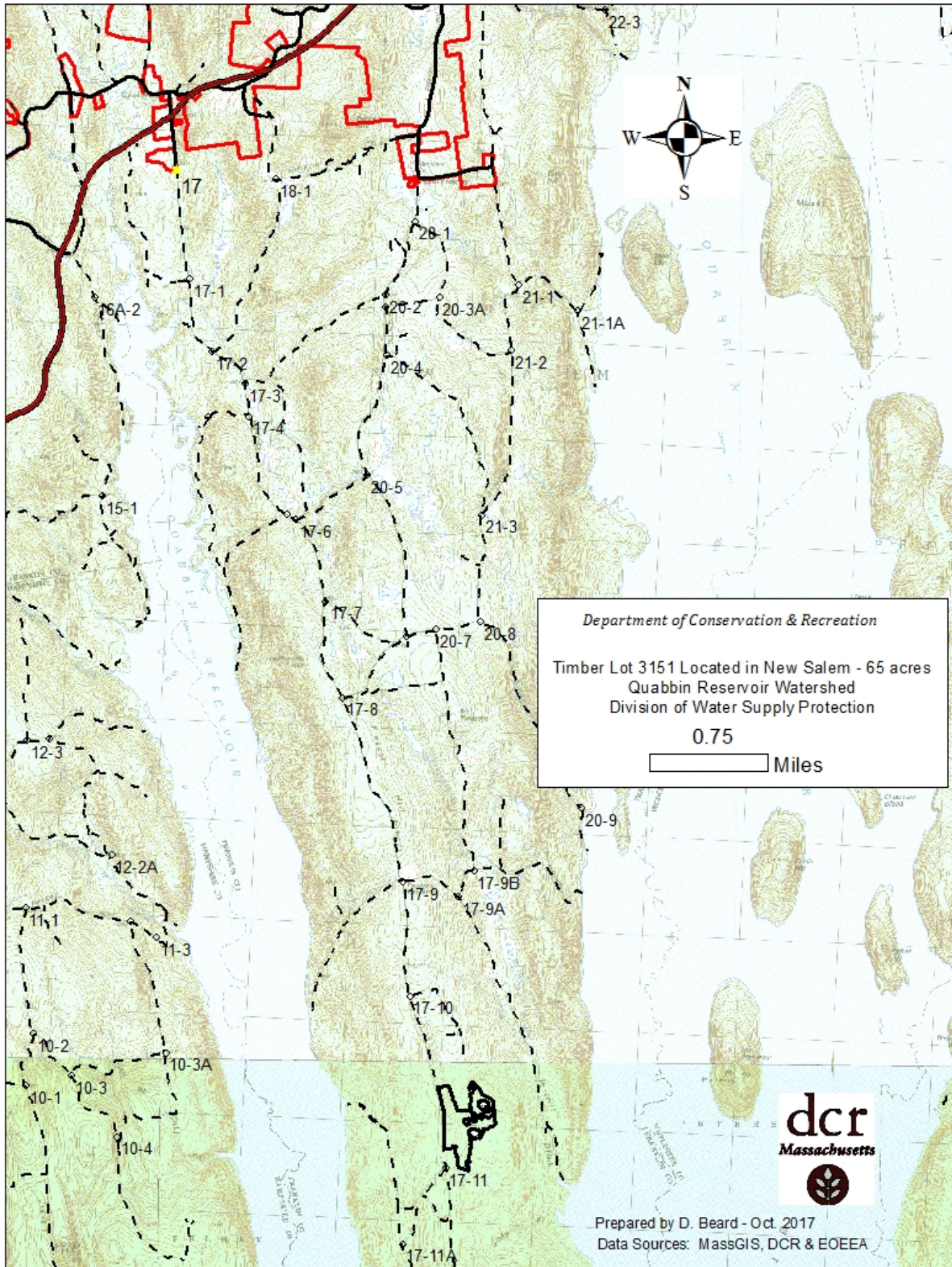
Stand No.	Source of Regeneration (ex. AD, SE)	How will Regeneration be obtained/protected? If using AD - Describe the species present and how the regeneration will be protected If using SE - Describe the source of the seed and the number of seed trees/acre

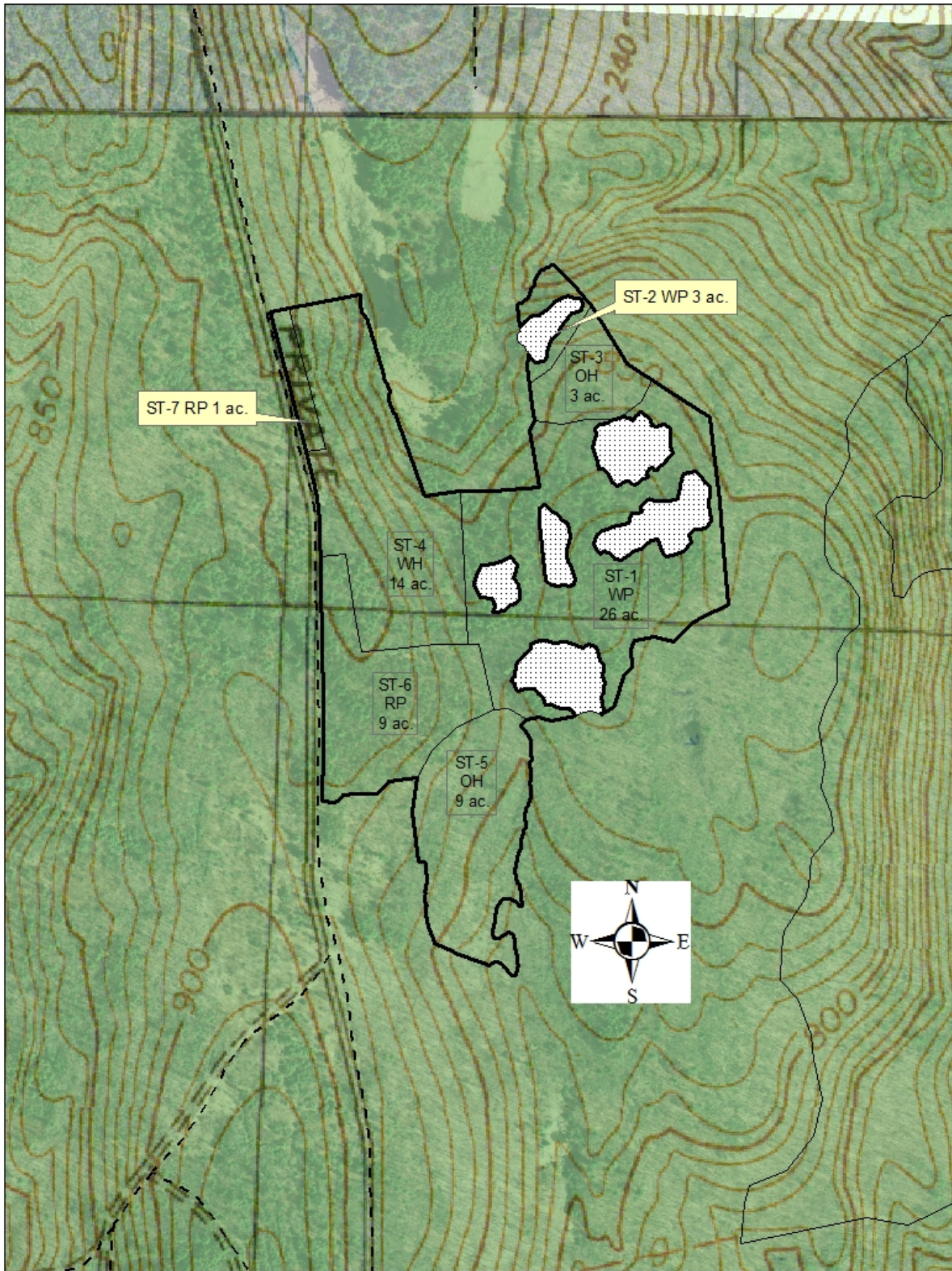
Stand No. **Desired Future Condition**
Describe what the stand is expected to look like five years from the harvest, including the condition of the overstory & understory

Cutting Standards (cont.)**Stand Treatment**

Indicate location on map	ST-5	ST-6	ST-7	
Forest Type	OH	RP	RP	
Acres	9	9	1	
Landowner Objective	N/A	N/A	N/A	
Designation of Trees	N/A	N/A	N/A	
Type of Cut	N/A	N/A	N/A	
Source of Regeneration	N/A	N/A	N/A	









MASSWILDLIFE

**DIVISION OF
FISHERIES & WILDLIFE**

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

Jack Buckley, *Director*

Sean Libbey
Department of Conservation and Recreation
40 Cold Storage Drive
Amherst, MA 01004

Cutting Plan No. 204-9094-18
NHESP Tracking No. 17-37280
Town New Salem
Road Cooleyville Road
Landowner DCR- Watershed Protection
Preparer Derek Beard
Date November 13, 2017

Dear Sean,

The Natural Heritage and Endangered Species Program ("the 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 the NHESP 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 David Paulson at (508) 389-6366 or david.paulson@state.ma.us.

Sincerely,

Thomas W. French, Ph.D.
Assistant Director

Cc: New Salem Conservation Commission

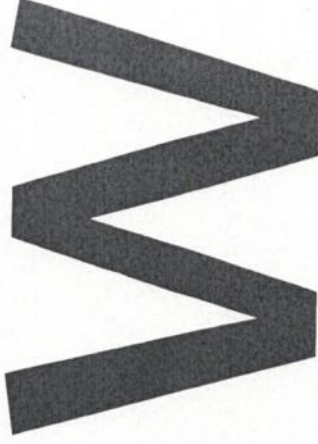
MASSWILDLIFE

dcR



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

FILE # 204.9094.18



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 Ware 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
Gate 17 / 3151st Lot, New Salem

Approval Date 11/20/17
Director's Agent Sean Libbey
DCR Phone No (413) 545-4539

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

Figure 2. Pre-Harvest Photographs, October 2017



Post Harvest, Feb. 2018



After one year of growth, July, 2018





Post Harvest, Feb. 2018



After one year of growth, July 2018

