

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

Project Title: Brown's Hill West Slope

DWSP Harvest Permit Number: 3147

DWSP Proposal ID: NS-16-23

DCR Forest Cutting Plan File Number: 204-8989-18

Site Information

Watershed: Quabbin

Town(s): New Salem

Acres: 46

Nearest Road: Fay Road

Natural Heritage Atlas overlap?: Yes

Public Drinking Water Supply Watershed?: Yes

Forest Types: White Pine, Mixed Oak

Area of Critical Environmental Concern (ACEC)?: No

Soils: Merrimac, Hinckley and Canton fine sandy loam

Wetland Resources: Part of the harvest is bounded by bordering wetland of the Swift River's middle Branch

Vernal Pools: No

Harvest Information

Harvest Start Date: September 20, 2017

Harvest End Date: May 30, 2018

Number of Wetland Crossings: None

Number of Stream Crossings: None

Best Management Practices Applied

Stream Crossings: None

Filter Strips: two 50-foot filter strips along the Swift River's middle branch bordering wetlands

Wetland Crossings: None

Harvesting in Wetlands: No

DWSP Forester supervising this harvest

Name: Derek Beard

Forester License number: 14

Phone number: 617-780-0631

Email: derek.beard@mass.gov

Narrative

General Description/Forest Composition/History

This watershed forest management project covers 46 acres of the west slope of Brown's Hill in New Salem. Specifically, it's situated south of Fay Road (Gate NS 11). It is bounded to the south by stone wall, west by the middle branch of the Swift River, north by Fay Road and east by Div. of Water Supply boundary.

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. 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 forest layer merits some regeneration harvesting.

Silvicultural Objectives

Diversification of forest structure is the primary project objective. This will be accomplished by creating openings (a.k.a. patches) in the forest canopy. Specifically, this project has 13 openings ranging between 0.25 and 0.9 acres with an average of 0.5 acres. Openings greater than 0.5 acres have retention trees which will add to future forest complexity. There is also a half-acre of thinning along Fay Road.

Cultural Resources

No significant cultural resources were discovered during the project planning process. This was corroborated by the August 2015 written comments from the state archeologist

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.

The project does overlap with area identified by the MA Natural Heritage Endanger Species program. Their review deemed the project to have no impact on the protected flora and/or fauna.

Figures

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 204.8984-13 Case No. _____
Date Rec'd 8/25/17 Nat. Hrt. yes
Earliest Start 9/12/17 Nat. Hrt. Imp. NO
River Basin Chicopee Pub. Dr. Wat. Quabbin
Gen. Obj. LT ACEC NO

FINAL

Site Information

Location Timber Lot 3147

Town New Salem
Road Fay Road
Acres 46 Proposed Start Date _____
Vol. MBF 103 Vol. Cds. 68 Vol. Tons 308

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 _____
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				
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)	50'	50'		

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

* Scattered presence of Buckthorn along main Skid Road. Heavy infestation of Buckthorn along Middle Branch of Swift River. FE 9/7/17

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 Ford	CO Corduroy	OT Other	MU Mud	
LO Landowner	PO Poled	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

pg 3 of 5

Figure 1a: Page one of Massachusetts Forest Cutting Plan

Forest Products

Products to be Harvested*Timber Lot 3147

Species	Mbf/Cds		Mbf/Cds
White Pine	81.7	Red Maple	
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	8.2
Hemlock	9.1	Black Oak	1.8
Spruce		White Oak	0.4
Other Sitwd.		Other Hdwd.	0.8
White Ash		Total Mbf	103
Beech		Cordwood (Cds)	68
White Birch		SW Pulp (Tons)	308
B & Y Birch	0.6	HW Pulp (Tons)	
Black Cherry	0.5	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.

Stand Treatment

Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WH	WH		
Aeres	45.5	0.5		
Landowner Objective	LT	LT		
Designation of Trees	CT	CT		
Type of Cut	SE	CT		
Source of Regeneration	SE/AD	SE		

Landowner

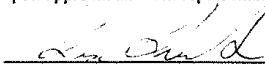
Landowner Signature

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 (Ch6) 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.

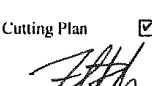

Signature of landowner(s)

8-23-17
Date

Service Forester

Determination and Status 204-8989-18

Approved ☒ Disapproved ☐ Expires 8/25/19

Cutting Plan ☒ 
Signature of Service Forester/Director's Agent 9/7/17
Date

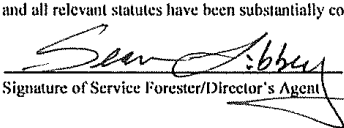
Extension 1 ☐ 2 ☐ Expires 1 Ser. For. Ints. 1

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

Codes

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

6/4/18
Date

Forest Types

WP White Pine	HK Hemlock	OM Mixed Oak
WK WP/Hem	HH Hem/Hdwd	RM Red Maple
WH WP/Hdwd	BC Black Cherry	BE Beech
WO WP/Oak	BB Bee/Hir/Map	SF Spruce/Fir
RP Red Pine	OH Oak/Hdwd	SM Sugar Maple
SR Red Spruce	OR N Red Oak	PP Pitch Pine

Designation of Trees

CT Cut Tree
LT Leave Tree
SB Stand Boundary
OT Other

Landowner Objective

LT Long-term Mgt.
ST Short-term Har

Type of Cut

SH Shelterwood
ST Seed Tree
CC Clear Cut
SE Selection
SA Salvage
SN Sanitation

Intermediate Harvests:

CT Commercial Thin
NT Non Com Thin

Non-Standard Systems:

HG Highgrade*
DL Diameter Limit*
OT Other*

Source of Regeneration

AD Advanced
SE Natural Seed
PL Plant
CO Coppice
DS Direct Seed
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

Figure 1b. Page two of Massachusetts Forest Cutting Plan

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 3147

Landowner DCR-DWSP-Quab

Town New Salem

File Number 201. 8989.18

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 harvest consists of 1 half acre (0.5) thinning and an aggregation of 13 canopy openings (patches) spread across 45.5 acres. Opening size ranges from 0.25 to 0.9 acres with an average of 0.5 of an acre. There are a total of 6 acres in openings. All skid roads are marked in orange paint.

Some openings are mark in blue paint. And some are marked with orange paint.

Reservation boundary along this harvest was brushed, blazed, painted (red) and signed; winter 2017.

6

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

Figure 1c. Page three of Massachusetts Forest Cutting Plan

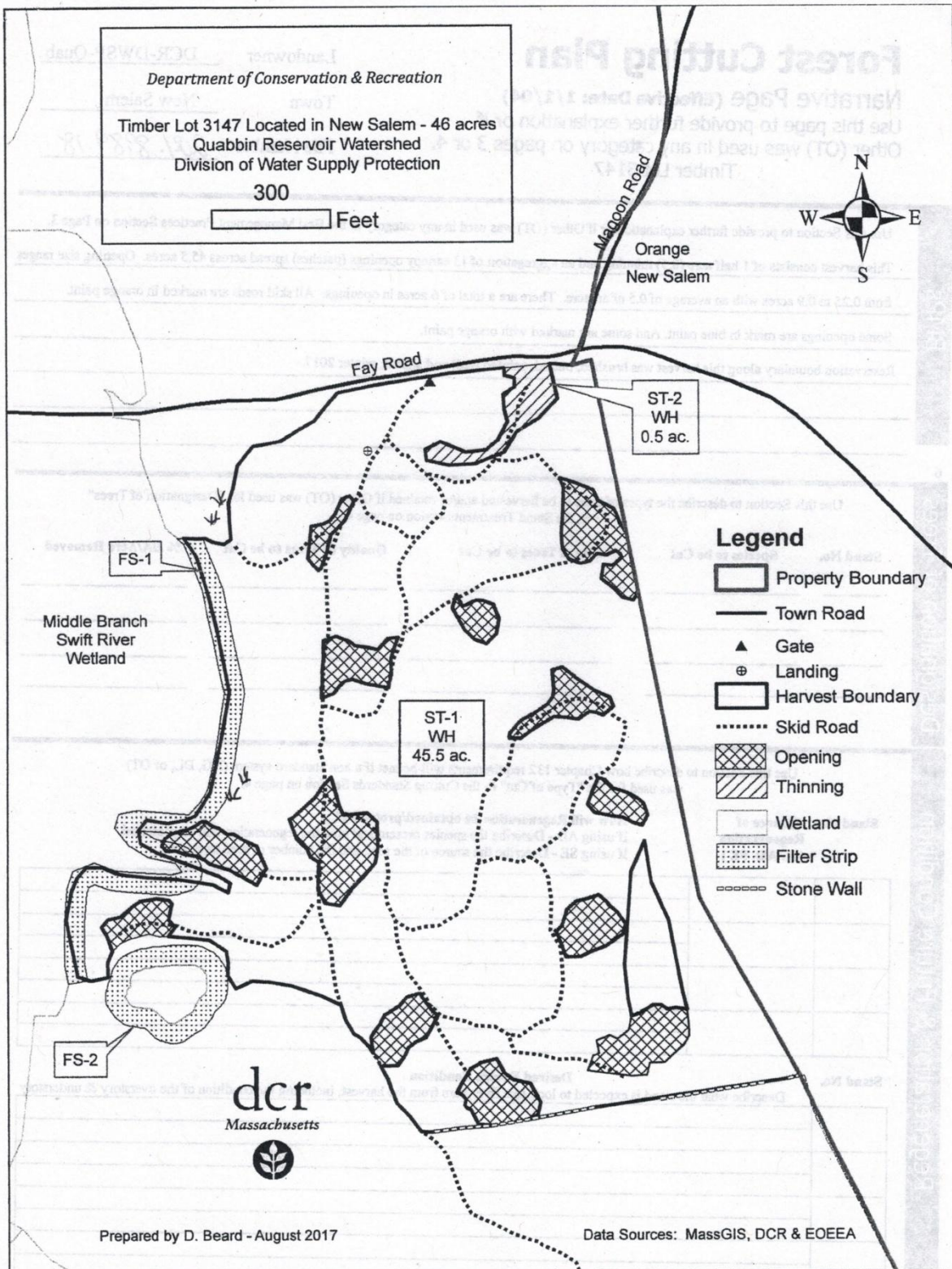


Figure 1d. Page four of Massachusetts Forest Cutting Plan

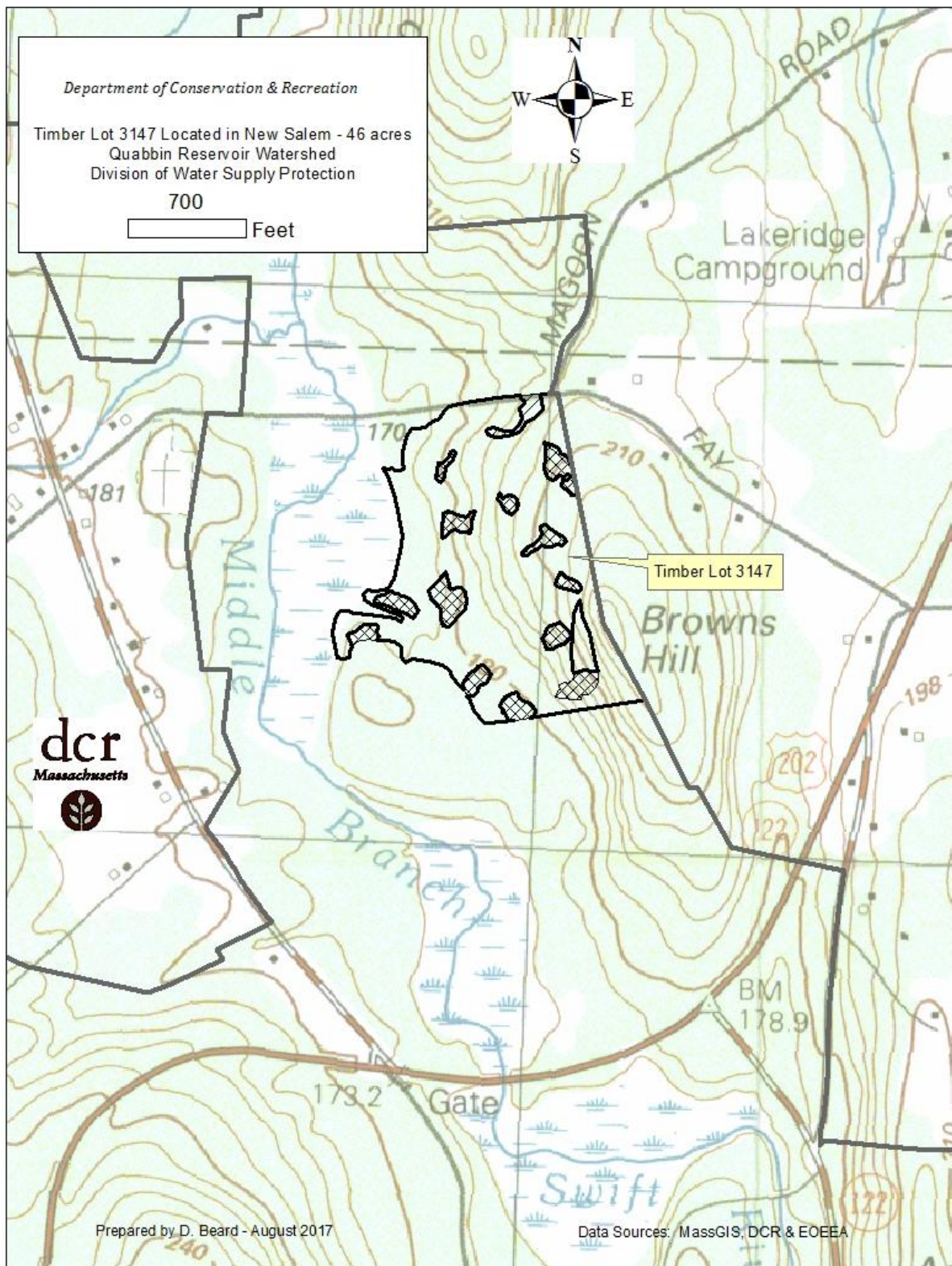


Figure 1e. Page five of Massachusetts Forest Cutting Plan



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

Fletcher Clark - Department of Conservation and Recreation
40 Cold Storage Drive
P.O. Box 484
Amherst, MA 01004

Cutting Plan No.	204-8989-18
NHESP Tracking No.	17-37087
Town	New Salem
Road	Fay Road
Landowner	DCR-DWSP Quabbin
Preparer	Derek Beard
Date	September 5, 2017

Dear Fletcher,

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 (Via Email)

MASSWILDLIFE

Figure 1f. Page six of Massachusetts Forest Cutting Plan

dc



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

FILE #

204-8989-18

FOREST CUTTING PLAN CERTIFICATE

W

Post this in a conspicuous place within the area in which the harvesting operation is to take place.

This certifies that DCR - DWSR 485 Ware Rd, Belchertown, MA 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
Fay Rd / 3147th lot.

Approval Date

9/7/17

Director's Agent

Fletcher Clark

DCR Phone No.

(413) 262-2367

ISSUED BY:

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

Figure1g. Page seven of Massachusetts Forest Cutting Plan