

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: 3145
DCR Forest Cutting Plan File Number: 204-8298-17

Site Information

Watershed: Quabbin	Town(s): New Salem
Acres: 40	Nearest Road: Route 202, Gate 17
Natural Heritage Atlas overlap?: Yes	Public Drinking Water Supply Watershed?: Yes
Forest Types: Mixed Oak	ACEC?:
Soils: Gneiss and Schist derived well drained till	
Wetland Resources: No	
Vernal Pools present or within 200 feet of harvest?: None	

Harvest Information

Harvest Start Date: September, 20, 2016	Harvest End Date: December 7, 2018
Number of Wetland Crossings: None	Number of Stream Crossings: None

Best Management Practices Applied

Stream Crossings	None
Filter Strips	2 variable width
Wetland Crossings	None
Harvesting in Wetlands	None

DWSP Forester supervising this harvest
Name: Derek Beard
Forester License # 14
Phone #: 978-544-6343
Email: derek.beard@state.ma.us

NARRATIVE

General Description/Forest Composition/History:

This watershed forest management project covers 40 acres located on the southern end of the Prescott peninsula, just west of the intersection for north and south Sherer Road (17-11A).

A mixture of oak (red, black, white, scarlet and chestnut) is the main forest cover. Red oak is more abundant in the mesic sites found in the northern 1/3 of the area. Classic mixed oak cover the central and south portions of the area. Oak, white pine and red maple regeneration make up much of the drier site understory. Shrub layer consist of huckleberry on the dry sites and fern in mesic areas.

The rocking terrain coupled with distance from the road precluded the area from being used for tillage. Prior to the industrial revolution it was likely used as a rough pasture or woodlot. It was classified as young forest (sprout land) on the reservoir real estate taking sheet. Post taking, very little forest management has occurred; just a light thinning in the very north end in 1965

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:

Diversification of forest structure is the primary project objective. This will be accomplished by making a series of forest canopy openings randomly spaced through the area. Specifically, there are 9 openings covering 4.6 of the 40 acres with an average opening size of 0.5 acres. Openings greater than 0.5 acres have some retained canopy trees that will contribute to the long term forest complexity of the area.

Cultural Resources:

Atypical of Quabbin, the area is fairly devoid of cultural resources; just a few stone walls.

Wildlife/Rare or Endangered Species:

Given that the area extends to the reservoir edge, it does overlap with critical habitat for Bald Eagle and Loon. Within the harvest openings, wildlife habitat such as live/dead snags, cavity/den/nest trees and down coarse woody debris will be maintained.

FIGURES

Figure 1. Forest Cutting Plan

Figure 2. Pre-Harvest Photographs, A-B

Figure 1: Forest Cutting Plan

07-28-16P03:52 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: 1/1/04)

For DCR Use Only:

File Number <u>204-8298-17</u>	Case No. _____
Date Rec'd <u>7/28/16</u>	Nat. Hert. <u>YES</u>
Earliest Start <u>8/12/16</u>	Nat. Hert. Imp. <u>NO</u>
River Basin <u>Chicopee</u>	Pub. Dr. Wat. <u>Quabbin</u>
Gen. Obj. <u>LT</u>	ACEC <u>UN</u>

FINAL 6/17

Location Timber Lot 3145

Town New Salem

Road Sherer Rd. (Gate 17)

Acres 40 Proposed Start Date _____

Vol. MBF 30.7 Vol. Cds. 140 Vol. Tons _____

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 - Quabbin

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 Tim Robinson

Address P.O. Box 58

Town, State, Zip Ware, MA 01005

Phone 508-361-1071

Mass. Lic. Harvester # 719

**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				
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)	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

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	<small>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.</small>
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 map

Page 2 of 5

Products to be Harvested* Timber Lot 3145

Species	Mbf/Cds		Mbf/Cds
White Pine	1.1	Red Maple	1.1
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	12
Hemlock		Black Oak	4
Spruce		White Oak	1.4
Other Sfld.		Other Hldwd.	7
White Ash	1.6	Total Mbf	30.7
Beech		Cordwood (Cds)	140
White Birch		SW Pulp (Tons)	
B & Y Birch	2.5	HW Pulp (Tons)	
Black Cherry		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	OM			
Acres	40			
Landowner Objective	LT			
Designation of Trees	CT			
Type of Cut	SF			
Source of Regeneration	SE/AD			

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.

Signature of landowner(s)

Date

Determination and Status 204-8298-17

Approved	Disapproved	Expires
<input checked="" type="checkbox"/>	<input type="checkbox"/>	7/28/18
Signature of Service Forester/Director's Agent		Date
		8/24/16

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

Extension	1 <input type="checkbox"/>	2 <input type="checkbox"/>	Expires	Ser. For. Ints.
Amendment	App 1 <input type="checkbox"/>	Dis 1 <input type="checkbox"/>	App 2 <input type="checkbox"/>	Dis 2 <input type="checkbox"/>

Forest Types

WP White Pine
WK WP/Hem
WH WP/Hldwd
WO WP/Oak
RP Red Pine
SR Red Spruce

HK Hemlock
HH Hem/Hldwd
BC Black Cherry
BB Bee/Bir/Map
OH Oak/Hldwd
OR N Red Oak

OM Mixed Oak
RM Red Maple
BE Beech
SF Spruce/Fir
SM Sugar Maple
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 no. 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 3145

Landowner DCR-DWSP-Quab

Town New Salem

File Number 204-8298-17

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 is an aggregation of 9 canopy openings (patches) spread across 40 acres. Opening size ranges from 0.25 to 1.0 acre with an average of 0.5 of an acre. The openings cover a total of 4.6 acres. Openings greater than 0.5 acres have a minimum of 5 square feet of residual basal area also known as green tree retention. Trees to be harvested in openings are marked with blue paint. Trees within main skid roads are marked with orange paint. The southwest most opening is 0.4 acres and situated on a bench (flat) no closer than 75 ft. to the reservoir.

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.

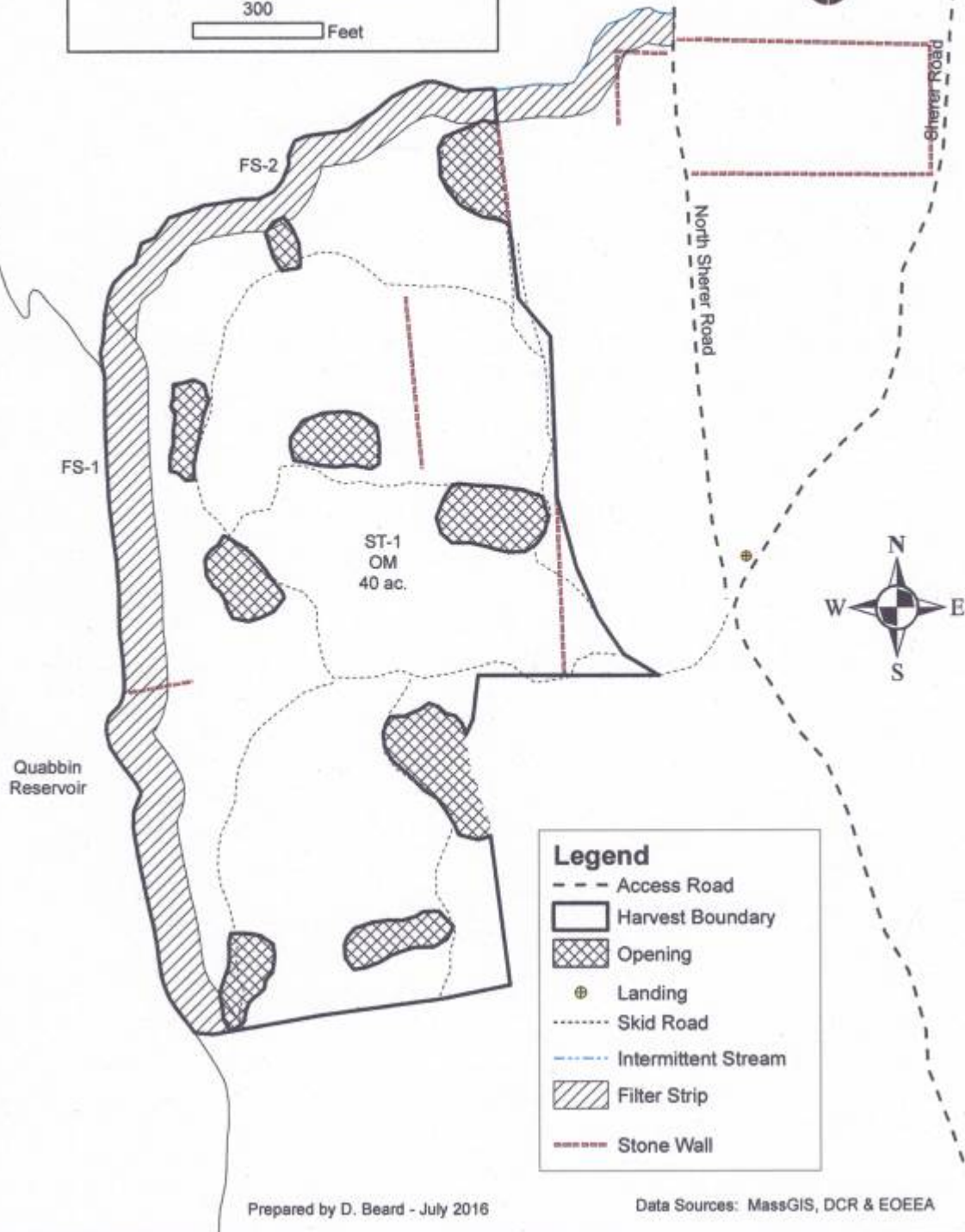
Stand No. Source of Regeneration (ex. AD, SE) How will Regeneration be obtained/protected?
If using AD - Describe the species present and how the regeneration will be protected
If using SE - Describe the source of the seed and the number of seed trees/acre

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 & understorey.

Department of Conservation & Recreation
Division of Water Supply Protection
Timber Lot 3145 Located in New Salem - 40 acres
Quabbin Reservoir Watershed

300
Feet

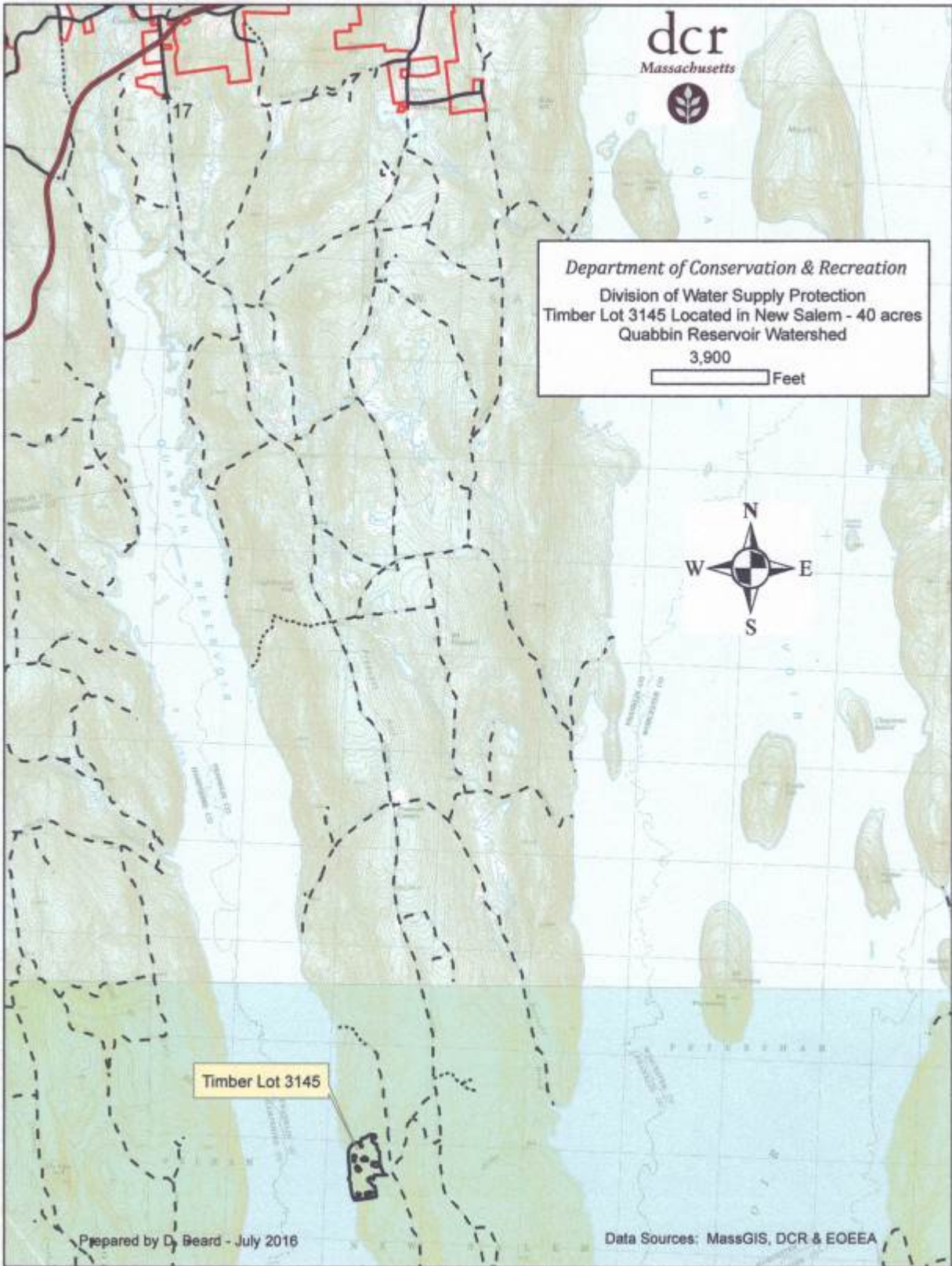


Legend

- - - Access Road
- Harvest Boundary
- Opening
- ⊕ Landing
- Skid Road
- Intermittent Stream
- Filter Strip
- Stone Wall

Prepared by D. Beard - July 2016

Data Sources: MassGIS, DCR & EOEEA





Division of Fisheries & Wildlife

Jack Buckley, *Director*

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

Cutting Plan No.	204-8298-17
NHESP Tracking No.	16-35910
Town	New Salem
Road	Sherer Road (Gate 17)
Landowner	DCR - DWSP
Preparer	Derek Beard
Date	August 26, 2016

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 (hereinafter "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 Brent Powers at (508) 389-6354.

Sincerely,

Thomas W. French, Ph.D.
Assistant Director

Cc: New Salem Conservation Commission (via e-mail)





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

FILE # 204-8298-17

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 Water Supply Protection, Bolders Farm in accordance with the
(Name of Owner) (Address)

provision of M.G.L. Chapter 132, Section 40-46, filed in Amherst with the Dept. of Conservation
and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the
3145 lot.

Approval Date 8-29-2016

Director's Agent FLEETHER CLARK

DCR Phone No. 413-262-2367

ISSUED BY:

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

Figure 2: Pre-Harvest Photograph A (July 2016)



Post Harvest Photographs, A (May 2017)



Pre-harvest: Photograph B (July 2016)



Post-harvest: Photograph B (May 2017)

