

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

**Project Title:**

<b>DWSP Harvest Permit Number:</b> 3147
<b>DCR Forest Cutting Plan File Number:</b> 204-8989-18

**Site Information**

<b>Watershed:</b> Quabbin	<b>Town(s):</b> New Salem
<b>Acres:</b> 46	<b>Nearest Road:</b> Fay Road
<b>Natural Heritage Atlas overlap?:</b> Yes	<b>Public Drinking Water Supply Watershed?:</b> Yes
<b>Forest Types:</b> White Pine, Mixed Oak	<b>ACEC?:</b> No
<b>Soils:</b> Merrimac, Hinckley and Canton fine sandy loam	
<b>Wetland Resources:</b> No	
<b>Vernal Pools present or within 200 feet of harvest?:</b> No	

**Harvest Information**

<b>Harvest Start Date:</b> September, 20, 2017	<b>Harvest End Date:</b> December 6, 2019
<b>Number of Wetland Crossings:</b> None	<b>Number of Stream Crossings:</b> None

**Best Management Practices Applied**

<b>Stream Crossings</b>	None
<b>Filter Strips</b>	2 filter strips; 50 ft. wide
<b>Wetland Crossings</b>	None
<b>Harvesting in Wetlands</b>	None

<b>DWSP Forester supervising this harvest</b>	
<b>Name:</b>	Derek Beard
<b>Forester License #</b>	14
<b>Phone #:</b>	617-780-0631
<b>Email:</b>	derek.beard@state.ma.us

## **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.

Dominant cover is large sawtimber white pine only broken up by a few acre block of pole size hardwood which regenerated from a 1979 timber harvest.

### **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 creating openings (a.k.a. patches) in the forest canopy. Specifically, this project has 13 openings ranging between 0.25 and 0.9 acre 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.

### **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.

The project does overlap with a MA Natural Heritage Endanger Species bubble. Upon review by this program; the project was deemed to have no impact on the protected flora and/or fauna.

## **FIGURES**

Figure 1. 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 204-8989-13 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

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 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	
		OT Other			

If Other (OT) is used in any category an explanation must be given on an attached narrative page

pg 3 of 5

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 Sftwd.		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.

## Cutting Standards

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

Stand Treatment

## 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

8-23-17

## Determination and Status 204-8989-18

Approved ☒ Disapproved ☐ Expires 8/25/19  
 Cutting Plan ☒  
 Signature of Service Forester/Director's Agent *[Signature]* Date 9/7/17

## 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

6/4/18

Extension 1 ☐ 2 ☐ Expires 1 Ser. For. Ints. 1  
 Amendment App 1 ☐ Dis 1 ☐ App 2 ☐ Dis 2 ☐ 1

Service Forester

Codes

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

Use this page to provide further explanation or if  
Other (OT) was used in any category on pages 3 or 4.  
Timber Lot 3147

File Number 201. 8989.18

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

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

[illegible]

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

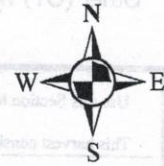



Department of Conservation & Recreation

Timber Lot 3147 Located in New Salem - 46 acres  
Quabbin Reservoir Watershed  
Division of Water Supply Protection

300

Feet



Magoon Road

Orange  
New Salem

Fay Road

ST-2  
WH  
0.5 ac.

FS-1

Middle Branch  
Swift River  
Wetland

ST-1  
WH  
45.5 ac.

FS-2

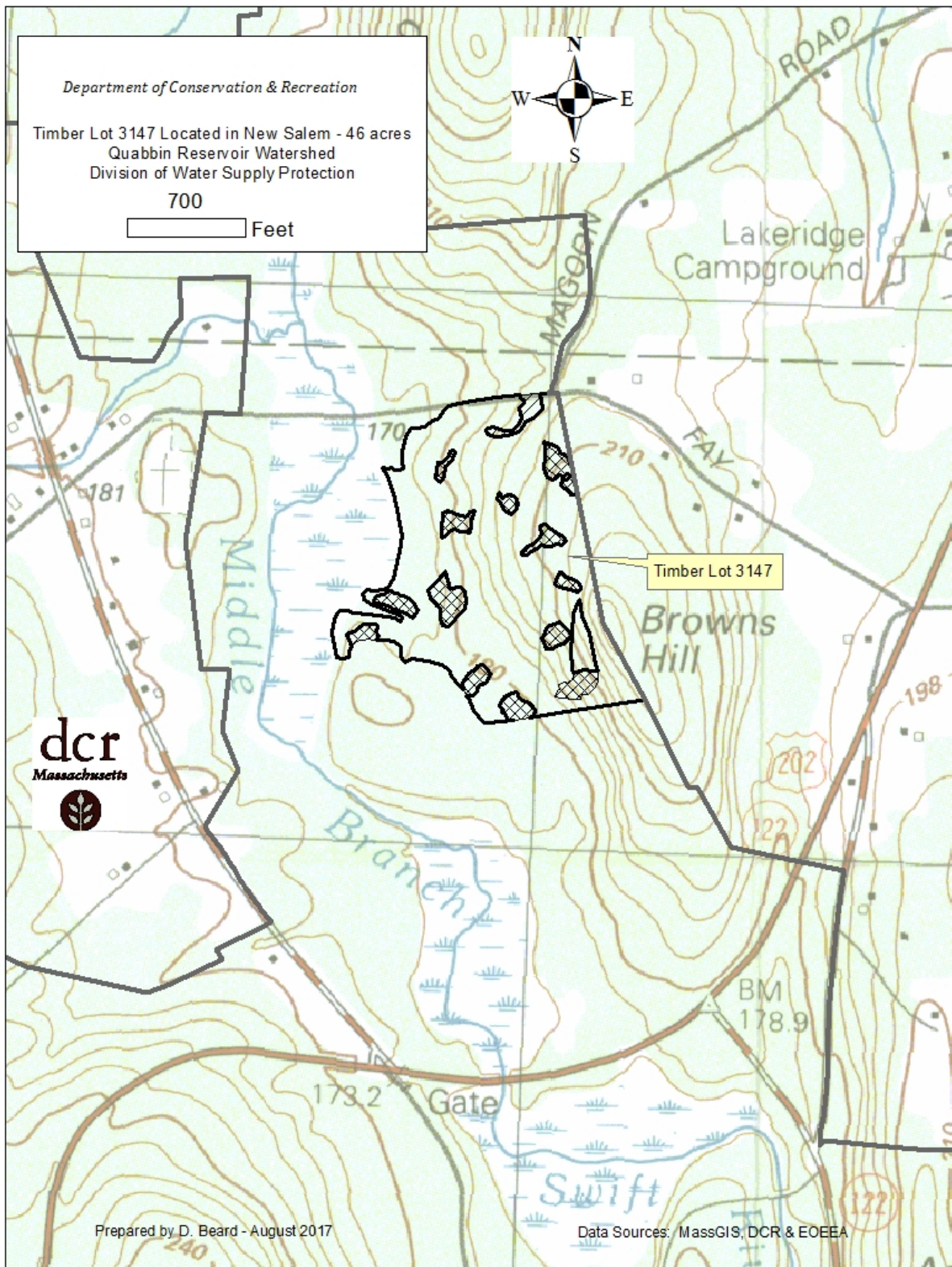


Legend

- Property Boundary
- Town Road
- Gate
- Landing
- Harvest Boundary
- Skid Road
- Opening
- Thinning
- Wetland
- Filter Strip
- Stone Wall

Prepared by D. Beard - August 2017

Data Sources: MassGIS, DCR & EOEEA







**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**



dc<sub>r</sub>

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



FILE #

204-8989-18

W

## 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 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 / "3147" 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