

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

**Project Title:** West of Munberry Brook  
DWSP Harvest Permit Number: 3140  
DWSP Proposal ID: PT-15-06  
DCR Forest Cutting Plan File Number: 204-6847-14

***Site Information***

Watershed: Quabbin  
Town(s): New Salem  
Acres: 10  
Nearest Road: Cooleyville Rd. (Gate 17)  
Natural Heritage Atlas overlap?: Yes  
Public Drinking Water Supply Watershed?: Yes  
Forest Types: White Pine, Red Pine  
Area of Critical Environmental Concern (ACEC)?: No  
Soils: Montauk fine sandy loam, Henniker sandy loam  
Wetland Resources: No  
Vernal Pools: No

***Harvest Information***

Harvest Start Date: September 22, 2015  
Harvest End Date: October 19, 2015  
Number of Wetland Crossings: 0  
Number of Stream Crossings: 0

***Best Management Practices Applied***

Stream Crossings: Not Applicable  
Filter Strips: Not Applicable  
Wetland Crossings: Not Applicable  
Harvesting in Wetlands: Not Applicable

***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 timber lot is located on the Prescott Peninsula, south of the reclaimed University of Massachusetts Astronomy site; along the east side of the Gate 17 road; the primary access through the peninsula. The forest is composed of White and Red Pine likely planted in the late 1930s. A thinning was completed in 1991. Proceeding the thinning, Red Oak seedlings were planted. As part of the 1927 original taking, this area was classified as arable and likely open (not forested) before public ownership. Believing that forest was the preferred watershed cover, early managers were quick to colonize these open areas with softwood plantations; like this one.

### ***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 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***

Guided by the principals above, the foremost intention of this timber harvest is to address the lack of structural diversity. The whole area is dominated by relatively high canopy forest. Creating a series of small openings (each 1/3 of an acre or smaller) should spur development of young forest that is distributed through the area. Success will create two distinct age/size classes growing amongst each other. Furthermore, the richer soils of this arable site favor development of hardwoods versus the existing white/red pine plantation forest cover. A secondary intention of this harvest is to reduce the red pine component; a regionally non-native species that has recently succumbed to an insect/disease cycle, ravaging many of the reservoir edge stands.

### ***Cultural Resources***

The harvest area is flanked to the north and south by old farmsteads, evidenced by cellar holes and barn foundations. Several stone walls traverse the area as well as form its boundary. Three fieldstone lined wells exist; one in the middle of the area; and the others just beyond the southern boundary. All, particularly the one within the area, will be identified for protection during operation.

***Rare or Endangered Species***

The harvest area does not overlap or abut any priority floral or faunal habitat; as compiled by MA Fish & Wildlife's Natural Heritage & Endangered Species program. No unusual wildlife, or evidence of, has been seen in, or adjacent to, the area. Maintenance of habitat mainly in the form of partially alive and dead standing trees, known as *snags*, will be a priority.

## Figures

- Figure 1. Forest Cutting Plan
- Figure 2. Photo Point Pictures

Figure 1. Forest Cutting Plan

01-28-14A11:29 RCVD (A)

# 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 204-6947.14 Case No. \_\_\_\_\_  
 Date Rec'd 1.28.14 Nat. Hert. NO  
 Earliest Start 2.12.14 Nat. Hert. Imp. N/A  
 River Basin Chicopee Pub. Dr. Wat. NO  
 Gen. Obj. WT ACEC NO

**TIMBER LOT 3135 FINAL** CR: None

**Location**

Town New Salem  
 Road Gate 17  
 Acres 10 Proposed Start Date \_\_\_\_\_  
 Vol. MBF 89.7 Vol. Cds. 27 Vol. Tons 208

**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 – 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 # \_\_\_\_\_  
 CR  CR Holder \_\_\_\_\_

**Licensed Timber Harvester\*\***

Name King Timber Harvesting  
 Address 15 Regard Hill Rd  
 Town, State, Zip Hudson, MA 01752  
 Phone \_\_\_\_\_  
 Mass. Lic. Harvester # PA 128  
 \*\*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)				

**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**

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**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

**Products to be Harvested\***

Species	Mbf/Cds		Mbf/Cds
White Pine	21.4	Red Maple	
Red Pine	64.8	Sugar Maple	
Pitch Pine		Red Oak	
Hemlock		Black Oak	
Spruce		White Oak	
Other Sftwd.		Other Hdwd.	3.5
White Ash		<b>Total Mbf</b>	89.7
Beech		<b>Cordwood (Cds)</b>	27
White Birch		<b>SW Pulp (Tons)</b>	208
B & Y Birch		<b>HW Pulp (Tons)</b>	
Black Cherry		<b>Chips (Tons)</b>	

\*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/RP			
Acres	10			
Landowner Objective	LT			
Designation of Trees	CT			
Type of Cut	SE			
Source of Regeneration	AD/SE			

**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.

*William E. Pale*  
 Signature of landowner(s)

1-27-14  
 Date

**Determination and Status**

204.6847.14

**Final Report and Comments**

Approved  Disapproved  Expires 1.29.2016  
 Cutting Plan  1/29/14  
*J. Johnson*  
 Signature of Service Forester/Director's Agent Date

I hereby certify that the above described Forest Cutting Plan and all relevant statutes have been substantially complied with.  
*[Signature]*  
 Signature of Service Forester/Director's Agent Date 3/7/16

Extension 1  2  Expires Ser. For. Imps.  
 Amendment App 1  Dis 1  App 2  Dis 2

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

# 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 3135

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.

Harvest consists of a series of small openings. Each opening is less than or equal to a third (.3) of an acre in area.

Main skid trails are delineated 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.

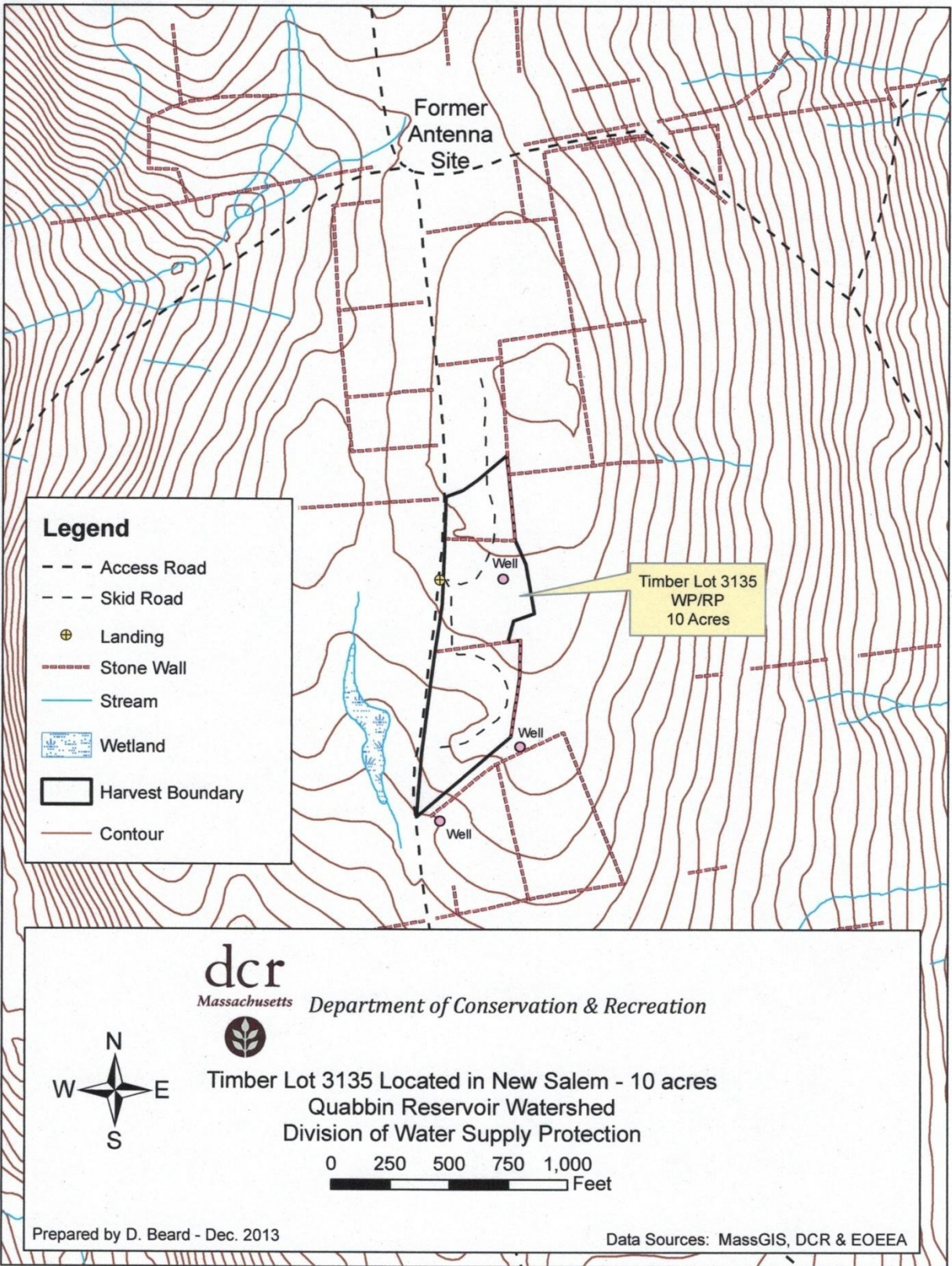
Stand No.	Species to be Cut	Size of Trees to be Cut	Quality of Trees to be Cut	% BA/Acre Removed

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








**dc**  
 Massachusetts Department of Conservation & Recreation


  
 Timber Lot 3135 Located in New Salem - 10 acres  
 Quabbin Reservoir Watershed  
 Division of Water Supply Protection

0.5 0.25 0 0.5 Miles



Prepared by D. Beard - Dec. 2013

Data Sources: MassGIS, DCR & EOEEA

**Figure 2. Photo Point Pictures**

Pre-Harvest, November 2013



Post Harvest, October 2015



July 2024 (9 years of growth)

