

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

Project Title: Prescott Center
DWSP Harvest Permit Number: 3160
DWSP Proposal ID: PR-17-08-A-B, PR-17-11
DCR Forest Cutting Plan File Number: 204-11152-19

Site Information

Watershed: Quabbin
Town(s): New Salem
Acres: 50
Nearest Road: Route 202, 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: Henniker sandy loam and Scituate fine sandy loam
Wetland Resources: No
Vernal Pools: No

Harvest Information

Harvest Start Date: June 27, 2019
Harvest End Date: October 14, 2019
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 watershed forestry project covers 50 acres of White & Red Pine forest (all the red pine is plantation) located near the old UMASS observatory site (aka Prescott Center) on the east side of the gate 17 Road (Prescott Rd).

All areas have been thinning once and in some cases twice. First thinning was completed in the mid-1980s. Beginning in the early to middle 2000s red pine, throughout the watershed, began to rapidly die from infestation of the red pine scale; a microscopic pest that feeds on the inner bark leading to needle desiccation and eventual death. The primary goal of the harvest is to remove the plantations before mortality, improve timber quality of native species and release/spur growth of a young forest age class.

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. An immediate forest health concern coupled with an underrepresented young forest layer merits some regeneration harvesting.

Silvicultural Objectives

Harvest purpose is to reduce further red pine mortality by removing the plantations, improve timber quality of native species (primarily white pine) and release/spur growth of a young forest age class. Achievement of these objectives should lead to a more diverse resilient forest over the long term.

Cultural Resources

Stone walls are the predominant cultural resource. In addition, two fieldstone lined wells were discovered and identified on the ground.

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. Falling in a natural heritage bubble, the project area was reviewed by MA Natural Heritage and Endanger Species program and deemed to have no impact on the specie(s) within the bubble.

Figures

- Figure 1. Forest Cutting Plan

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: 3/15/16) **Final (1/20)**

For DCR Use Only:

File Number	204-11152-19	Case No.	
Date Rec'd	6-11-19	Nat. Herit.	Yes
Earliest Start	6-26-19	Pub. Dr. Wat	NO
River Basin	Chicopee	A/C/E/C	NO
Gen. Obj.	LT		

Site Information

Location

Town: New Salem
 Road: Cooleyville Rd. (Gate 17)
 Acres: 50 Proposed Start Date: _____
 Vol. MBF: 501 Vol. Cds.: 146 Vol. Tons: 835

Plan Preparer

Name: Derek Beard
 Address: 485 Ware Rd.

Town, State, Zip: Belcherdown MA 01007
 Phone: (817) 780-0631
 Type of Preparer: Forester
 *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: Belcherdown MA 01007
 Phone: 413-323-6921
 Ch61 61A 61B Stew *Case # _____
 FSC CR CR Holder

Licensed Timber Harvester**

Name: King Timber Harvesting
 Address: 25 Regard Hill Rd
 Town, State, Zip: Holliston, MA 01452
 Phone: 978-928-4422
 Majs. Lic. Harvester #: 2020-262/128
 **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 Deform				
Bank Elevation (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 VAI)				

Harvesting in Wetlands

Indicate location on map	HW-1	HW-2	HW-3	HW-4
Forest Type (see pg 2)				
Acres to be Harvested				
Reid. Basal Area (>50%?)				

Service Forester Comments

Seed Tree requires retention of 4 Seed Trees >20" DBH/Acre and have been marked as such - AR
Harvest = No Impact - See Attached - AR

Codes

Type of Activity	Type of Crossing	Stabilization	Mitigation	Type of Deform	Note
LF Mass. Lic. For	CU Culvert	SI Seed	FR Fences	LE Edge	Applicant must provide DCR with all relevant information before plan may be approved and cutting may begin. Some forestry activities, such as prescription for thinning and pesticide or fertilizer application may require additional permits. Consult MA Forestry BMP Manual for further information.
TH Lic. Timber Har	DB Bridge	MU Mulch	DR Dry	ST Stone	
TL Timber Layer	FD Ford	CU Underlay	OT Other	ML Mud	
LO Landowner	PO Paved	SI Stone		GR Gravel	
OT Other	OV Other	EH Haystack		OT Other	
		OT Other			

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

Forest Products

Products to be Harvested*

Species	MbFCfs		MbFCfs
White Pine	106	Red Maple	1
Red Pine	407	Sugar Maple	9
Pitch Pine		Red Oak	3
Hemlock		Black Oak	
Spruce		White Oak	
Other Silv.		Other Hard	
White Ash	31	Total MbF	581
Beech		Cardinal (Cfs)	148
White Birch		SW Pulp (Tons)	835
B & Y Birch	1	HW Pulp (Tons)	
Black Cherry	2	Chips (Tons)	

*Note: Volumes 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	WP/RP	WP/RP	WP/RP	WP/RP
Acres	6	29	6	7
Landowner Objective	LT	LT	L1	LT
Designation of Taxes	CT	CT	CT	CT
Type of Cut	ST	SE	ST	SA
Source of Regeneration	AD	AD	AD	AD

Landowner

Landowner Signature

The most important information in 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 (we) 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 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.

6-5-19

Signature of Landowner(s)

Date

Service Forester

Determination and Status 204.11152-19

	Approved	Disapproved	Expires
Cutting Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6-4-21
		ST	6-9-19
	Signature of Service Forester/Director's Agent		Date
Extension	<input type="checkbox"/>	<input type="checkbox"/>	Expires
	App 1		Dis 1
	App 2		Dis 2
Amendment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final Report and Comments

I hereby certify that the future described Forest Cutting Plan and all relevant statutes have been substantially complied with.

6/2
Date: 1-6-2020

Codes

Forest Types	Designation of Taxes	Type of Cut	Source of Regeneration
WP White Pine	HM Hemlock	OM Mixed Oak	CT Clear Cut
WR White Red	HM Hemlock	OM Red Maple	LT Leave Tree
WR White Red	BC Black Cherry	SP Spruce	ST Short-term Harvest
WO White Oak	BB Beech	SP Spruce	ST Short-term Harvest
RP Red Pine	OM Mixed Oak	SM Sugar Maple	ST Short-term Harvest
SR Red Spruce	CR Red Oak	SM Sugar Maple	ST Short-term Harvest

*If Other (OT) or a non-standard system is used an explanation must be given on attached narrative page 19, 4 of 5

Forest Cutting Plan

Narrative Page (Effective Date: 3/15/16)

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

Landowner DCR - Div. of Water Supply Protection

Town New Salem

File Number 204-11152-19

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.

The intent of this timber harvest is to substantially reduce the red pine component of these mixed softwood (white pine/red pine) plantations. In past decades, red pine, a species native to the upper mid-west, has died throughout the watershed; falling prey to a scale insect and diplotia fungus. Although mostly alive, significant mortality has struck the southern portion of the project (stands designated as salvage "SA"). Stand two is a DCR approved large opening with green tree retention of mainly white pine and black birch. Live and dead trees with cavity den. bird peck (excavation) sign (know as snags) will be retained throughout the project area. Ultimately, the project should lead to future forest that is healthier and more diverse in composition and structure.

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. Additional narrative description may be added on a separate page.

Stand No.	Describe Trees to be Cut			Describe Trees to be Left			% BA/AC	
	Species	Size	Quality	Species	Size	Quality	Cut	Left

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.

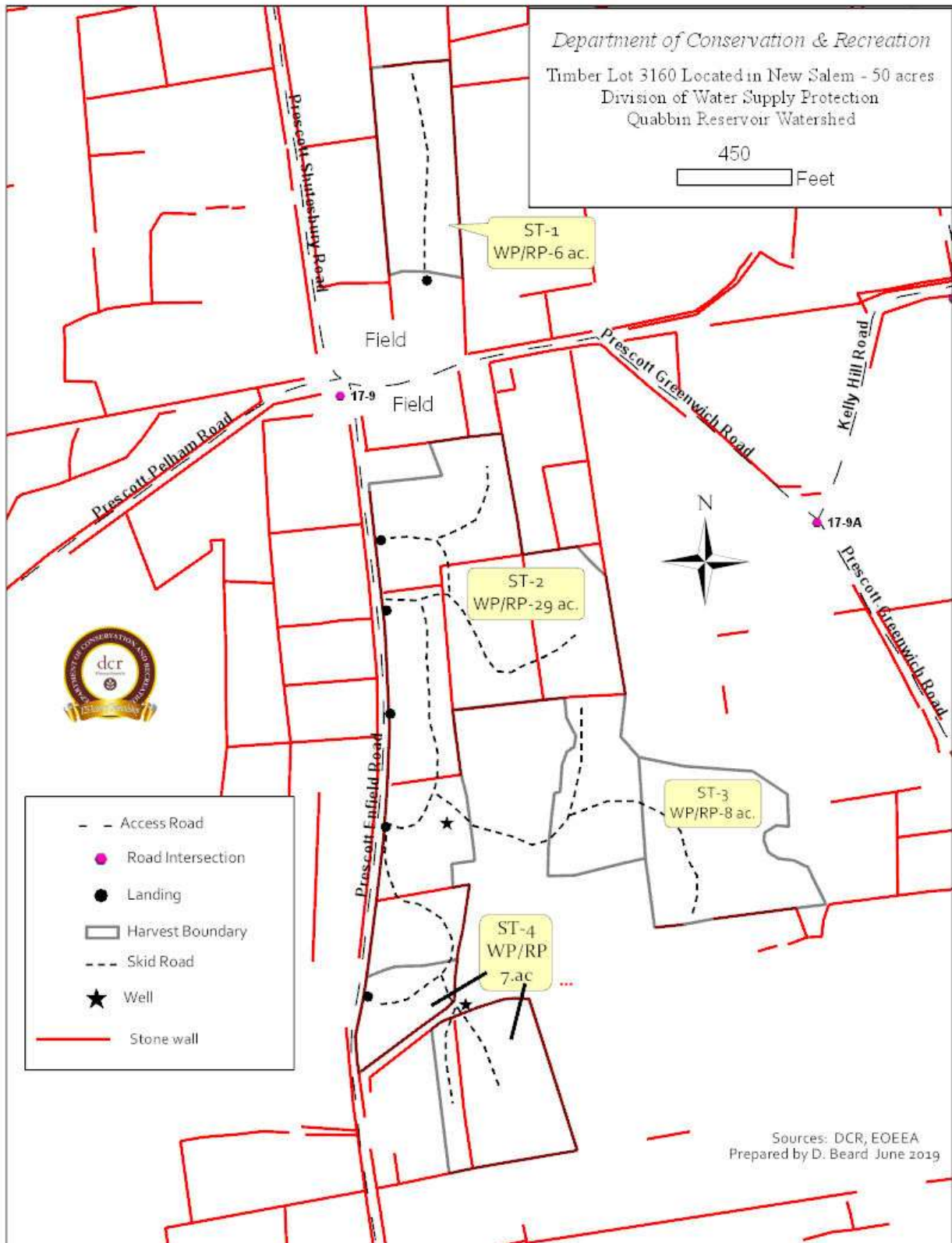
Stand No.	Source of Regeneration (ex. AD, SE)	How will Regeneration be obtained/protected? If using AD - Describe the species present and how the regeneration will be protected If using SE - Describe the source of the seed and the number of seed trees/acre
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Stand 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
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Department of Conservation & Recreation
Timber Lot 3160 Located in New Salem - 50 acres
Division of Water Supply Protection
Quabbin Reservoir Watershed

450

Feet

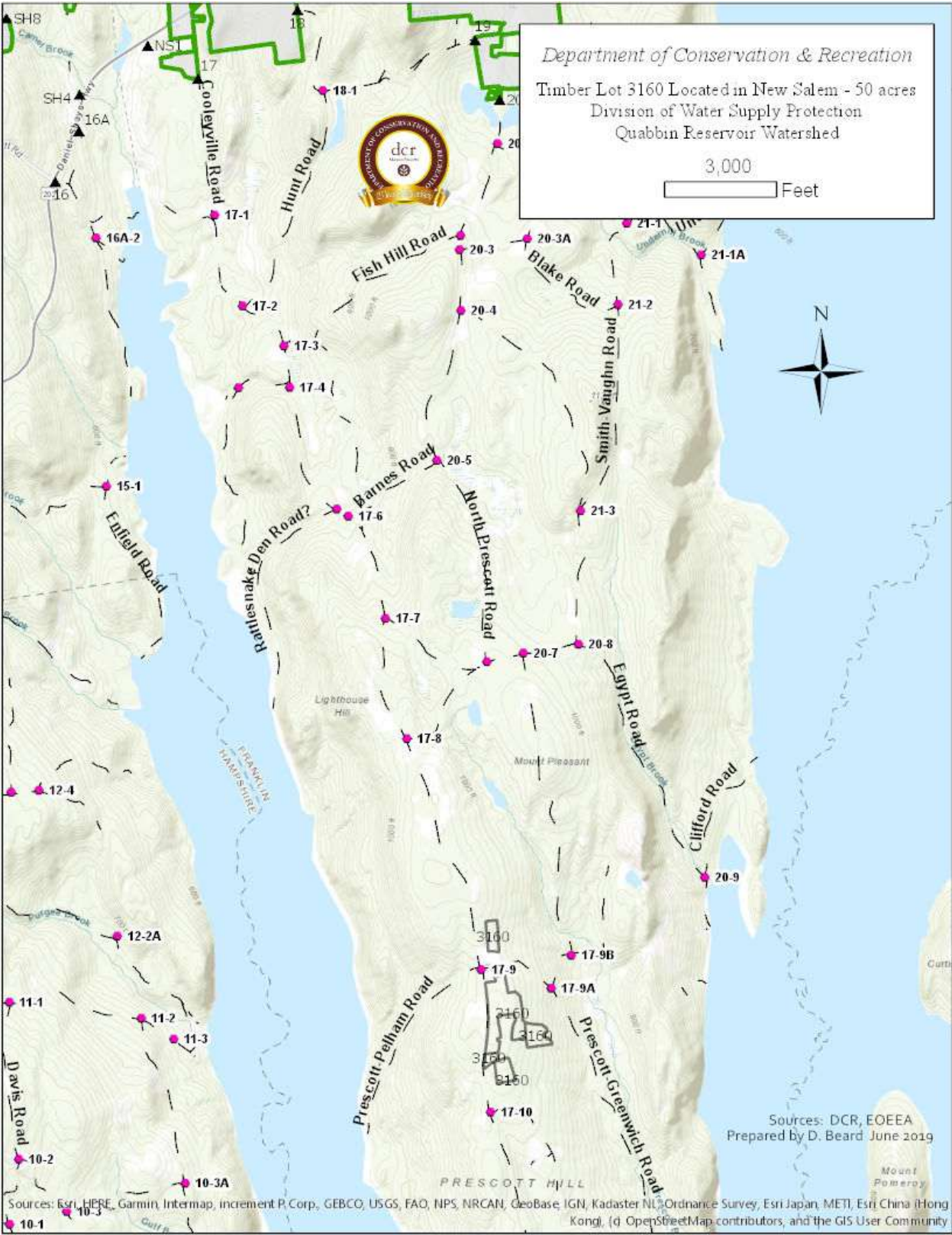


- - Access Road
- Road Intersection
- Landing
- ▭ Harvest Boundary
- - - Skid Road
- ★ Well
- Stone wall

Sources: DCR, EOEEA
Prepared by D. Beard June 2019

Department of Conservation & Recreation
 Timber Lot 3160 Located in New Salem - 50 acres
 Division of Water Supply Protection
 Quabbin Reservoir Watershed

3,000
 Feet



Sources: DCR, EOEEA
 Prepared by D. Beard June 2019

Sources: Esri, HERE, Garmin, Intermap, increment P, Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (d) OpenStreetMap contributors, and the GIS User Community



MASSWILDLIFE

DIVISION OF FISHERIES & WILDLIFE

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

Andrew Rawcliffe
Department of Conservation and Recreation
40 Cold Storage Drive
Amherst, MA 01004

Cutting Plan No. 204-1152-19
NHESP Tracking No. 19-38707
Town New Salem
Road Cooleyville Road
Landowner DCR-DWSP
Preparer Derek Beard
Date June 14, 2019

Dear Andrew,

The Natural Heritage and Endangered Species Program (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(5)). 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 Rebekah Zimmerer at (508) 389-6354 or Rebekah.zimmerer@state.ma.us.

Sincerely,

[Handwritten signature]

Jonathan V. Regosin, Ph.D.
Deputy Director

Cc: New Salem Conservation Commission

MASSWILDLIFE

dcr



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

FILE # 204-11152-19

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 lot, New Salem
(Cooleyville Rd)

Approval Date 6/19/19

Director's Agent Andrew Rawcliffe

DCR Phone No. 617-549-1677

ISSUED BY:

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