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: 3166	
DWSP Proposal ID: PR-17-16	
DCR Forest Cutting Plan File Number: 204-32385-21	

Site Information

Watershed: Quabbin	Town(s): New Salem
Acres: 74	Nearest Road: Cooleyville
Natural Heritage Atlas overlap?: Yes	Public Drinking Water Supply Watershed?: Yes
Forest Types: Oak/Hardwood, White Pine/Oak	ACEC?: No
Soils: Stony till with varying levels of sandy loam	
Wetland Resources: Intermittent brooks	
Vernal Pools: 1	

Harvest Information

Harvest Start Date: 7/1/2021	Harvest End Date: 6/30/2023
Number of Wetland Crossings: 0	Number of Stream Crossings: 1

Best Management Practices Applied

Stream Crossings 1; will be a temporary skid bridge with corduroyed slash	
Filter Strips	1; variable width based on slope
Wetland Crossings	0
Harvesting in Wetlands	0

DWSP Forester supervising this harvest	
Name: Derek Beard	
Forester License #: 14	
Phone #:	
Email: derek.beard@mass.gov	

NARRATIVE

General Description/Forest Composition/History:

The general location of this harvest is east and south of the intersection (20-8) of Egypt Brook road and end of the Gate 21 road. Specifically, it sets along the east side of Egypt Brook and ascends eastward over a height of land to a steep east facing slope. It is bounded to the west by Egypt Brook, to the north by an old lot line, to the east by steep slope and to the south by Quabbin Salvage Harvest S7NQ (completed in 2019).

High canopy oak/hardwood covers most the area; greatest stocking is red oak followed by white, black and scarlet. Common mid-story hardwoods are red maple, black birch and hickory. The other main forest component of the harvest area is high canopy white pine/oak. Portions of this forest type have very large trees which could be considered exceptional and have not been included in the harvest. An understory composition of sapling/small pole size black birch and white pine was triggered from thinning in 1971 and '82. There has been a minor to moderate level of oak mortality (mostly confined to the lower slope) resulting from repeated Gypsy Moth caterpillar infestation (2016/17).

An old truck road descends from Egypt Brook Rd to an old stone culvert (the projects stream crossing) over Egypt Brook eventually arriving at a ¼ acre stand of vigorous large pole size white pine. It was discovered from discussions with a retired forester that this locale was the site of a portable sawmill likely used in the 1970s 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 and future users. 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 to large scale disturbances such as disease, insect infestation, ice storms and hurricanes.

Silvicultural Objectives:

The main goal of the harvesting project is to release and/or spur a young forest age class. This will be accomplished by the siting of 10 openings across the harvest area that range between 0.1 and 2 acres in size; and average about 1 acre. Openings over a half-acre (0.5) have live tree retention that will contribute to future forest complexity.

Cultural Resources:

Given the area's distant proximity from the road, other than old property bounds, cultural resources are quite sparce.

Rare or Endangered Species:

According to the latest edition of the MA Natural Heritage & Endanger Species Atlas, the project does overlap with any estimated or critical habitat area. Although no harvesting is occurring near it, a portion of the project's east boundary is a vernal pool.

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: 3/15/16)

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For DCR U		41 31	NA
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		Nat. Hert.	True
Earliest Start	06/21/2021	Pub. Dr. Wat.	Yes
River Besir	Chicopec	ACRC.	Falsc
Gen. Obi.	LT		

	Location		_	Landowner	
	Town New Salem Road Egypt Brook			Name DCR Div. of Water Supply Protection	מו
_				Mailing Address 485 Ware Rd	
ें ं	Acres 74.00	Propused Start Date		_	
mati	Vol MBF <u>113.000</u> Vol.			Town, State, Zip Belchertown Jassachusett: 0 Phone: 413-323-6921	<u>110</u> 07
Information	Plan Preparer		_	Ch61	
	Name	Dorek Beard			
Site		485 Ward Rd		Licensed Timber Harvester**	
0,1				Name	
	Town, State, Zip. Belche	erson MA	01007		
	Plane	617-780-0631	<u> </u>	Address Town, State, ZipMA	_
	Type of Preparet	LF		Phone	
	*Mass. Forester License #	14		Mass, Lic. Harvester#	
				Até This informacion may be supplied after the plan is approved. Int. b	
	*Required for land under (Lhb1, Chb1A or Force	t Stewardship	work Degrees	
	Stream Crossings			Harvesting in Wetlands	
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SO.	Type of Creesing	BR i	7 110.7	Forest Type (see pg 2)	
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ЭE	Wetland Crossing	ş 	_	Service Forester Comments	
ge	Indicate location on map	WC-1 WC-2 WC	3 WC4	Approved 6/30/21.	
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Designation of Trees

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Hem/Hilad

Blak Chrery

Onl/H2wd

N Rial Cak

Bee/Bu/Map Sit

DM Mixed Colu

RM Red Maple

Specios/Lin

Pitch Page

Suppli Maple

Products to be Harvested* *Note: Volumes and values indicated in the Plan are as reported by the plan preparer and have not been independently verified. MIDI/Cda by the service forester apon approval. Mbf = thousand board foot. Species ММ/Cda 43,200 1.000 White Pine Red Maple **Cutting Standards** 1.200 Red Pine Sugar Maple Treatment 52,500 Rod Oak Patelt Pend Hemlock 4.200 1.100Black Oak Indicate location on map ST-1 ST-2 ST-3 **ST4** Whire Oak 1.600 Forest Type WΟ OH 1.000 27,000 47.000 Other Stiwd. Other Hawd. 113,200 LT LT Landowner Objective White Ash 0.300 Total Mbf Stand CTDesignation of Trees CT Cardwood (Cds) 153,000 Beech Type of Cut CC CC 57,000 SW Pulp (Tors) White Birch Source of Regeneration AD,SE AD,SE H & Y Birch 7.100BW Pulp (Tons) Black Clierry Chips (Lons) Landowner Signature The most important information on a cutting plan is the Landowner's objective, as this will determine which trees will be horvested and which will remain; this decision will also determine the future condition of the forest for decades to come. After having rend the Massachasetta Forest Cutting Plan Information Sheet on page one, indicate your objective by checking the appropriate box below X I.T - Long-term Forest Management ST - Short-term Harvest Harvest of trees with the main intention of producing Planned management of the forest to achieve one or more of the short-term income with minimal consideration given to following objectives: produce immediate and maximize long-term income, enhance wildlife habitat, improve recreational opportunities. improving the future forest condition, which often results protect soil and water quality, or produce forest specialty products. in a forest dominated by poor quality and low value species. Tywe's have read the Massachusetts Outling Plan Information Sheet, and am aware of my (our) management uptions. I (we) hereby certify that I (we) have the legal authority to carry out the operation described above. I (we) can by 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 valumes 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/hor agent if the final figures differ from those reported. an / may feel ((Stocks , some of) 07/13/2021 Signature of Inndowner(s) **Final Report and Comments** Determination and Status I horoby conify that the store described Forest Cutting Plan-Disapproved Express Approved Forester and all relevant statutes have been substantially complied with. 06/04/2023 \mathbf{x} Cutting Plan 07/13/2021 Signature of Service Forestet/Director's Agent Dasc Signature of Service Forester Director's Agent Expires Ser For, lins Extension ıΠ App 2 Dis 2 Amademat

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Landowner O'sjectale LT - Lung-tenn Mij.

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Non-Standard Systems:

Highgrade* Diameter Link&

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pg 4 of 6

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SL Distury Sovet

Figure 1c: Forest Cutting Plan pg 3.

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 will also determine the future condition of the forest for decades to come. After having read the Massachusetts Forest Cutting Pran Information Sheet on page one, indicate your objective by checking the appropriate hox 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, cohonce wildlife nabital, improve recreational opportunities, protect soil and water quality, or produce forest speciality products.

□ST - Short-term Härvest

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 aware of my (out) management options. I (we) hereby certify that I (we) have the legal outhority 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 are 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)

6-4-2021

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	of Water Supply Pro			
Town	New Salem			
File Number	204 32385 21			

Use this Section to provide further explanation or if Other (OT) was used in any estagory in the Best Management Plactices Section on Page 3

The harvest encompasses 10 patch openings (clearcuts) totaling 9.7 acres across a 74 acre project area. Sizes range from a 10th of an acre to 2.2 acres and average one acre. Openings over a half an acre have some tree retention. About 4 MBF of red oak volume is dead; 0.7 MBF of black oak volume is dead (killed by 2017/18 gypsy moth infestation). Skid roads are marked in orange or red paint. Openings are marked in blue paint.

rees

Use this Section to describe the types of trees to be introvested 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.

Describe Trees to be Cut			Describe Trees to be Left			% BA/AC	
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		Use this Section to	s describe how Chapter 132 requirements will be met if a non-standard system (BG, DL, or OT) was used for the "Type of Cut" in the Cutting Standards Section on page 4.
Future Condition	Signa No.	Source of Regeneration (ex. A.D., SE.)	They will Regeneration be obtained/protected? If using AD - Describe the species present and how the regeneration will be prefeated. If using SE - Describe the source of the seed and the number of seed receivers.
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Regeneration	Stand No.	Describe what th	Destred Future Condition Stand is expected in look like five your from the horvest, including the condition of the overstory & understory
agen			
Ϋ́,			

pg 6 0 1 6

Figure 1d: Forest Cutting Plan pg. 5.



DIVISION OF FISHERIES & WILDLIFE

1 Babbit Hill Road, Westborough, MA 01581 p: (508) 389-6300 | f: (508) 389-7890 M A S S . G O V / M A S S W I L D L I F E

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

Cutting Plan No.	204.32385.21
NHESP Tracking No.	18-37992
Town	New Salem
Road	Egypt Brook
Landowner	DCR DWSP, Quabbin
Preparer	Derek Beard
Date	June 28, 2021

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(6)). Based on details of the Plan and information in our 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@mass.gov.

Sincerely,

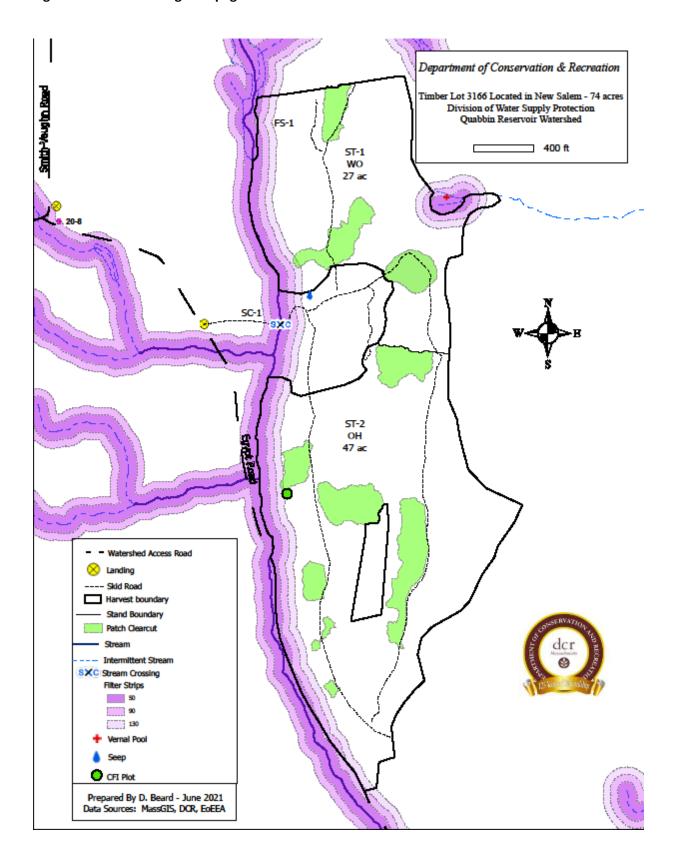
Everose Schlüter, Ph.D. Assistant Director

Cc: New Salem Conservation Commission

MASSWILDLIFE

Andrew Rawcliffe
Department of Conservation and Recreation
40 Cold Storage Drive

Figure 1e: Forest Cutting Plan page 6.



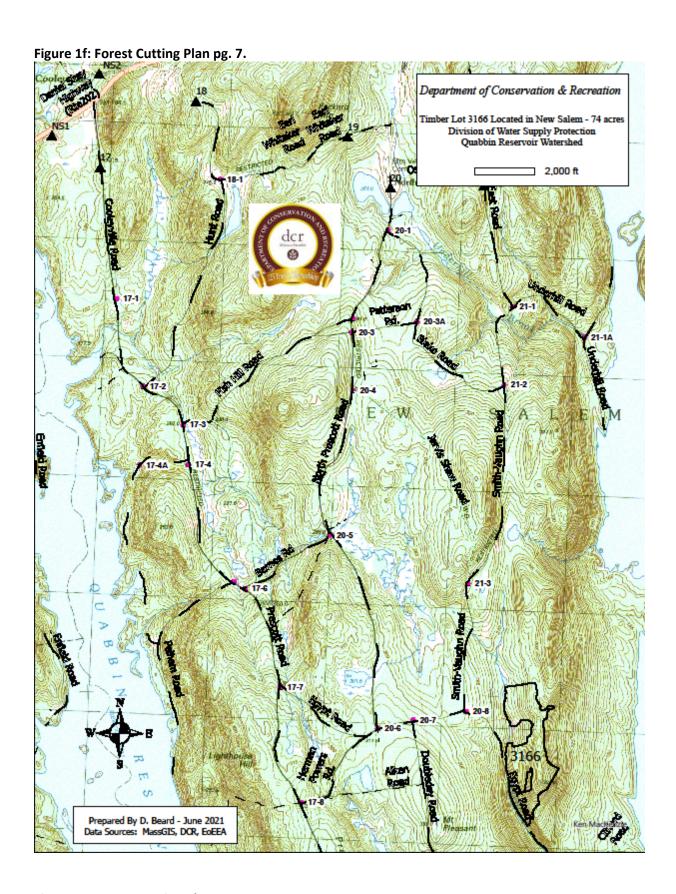


Figure 1g: Forest Cutting Plan pg. 8.

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COMMONWEALTH OF MASSACHUSETTS

Department of Conservation and Recreation Division of State Parks and Recreation

FILE # 204-32385-21



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-DINSP 485 Ware 2d, Golden Advantable in accordance with the (Address) 01007

provision of M.G.L. Chapter 132, Section 40-46, filled in Anhles 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 " 3166" lot. Egypt Brook 2d, New Salers

Approval Date 10/30/21
Director's Agent Andrew Rowcliffe
DCR Phone No. 1017-549-1677

ISSUED BY: (Tank)

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