

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: 3140
DCR Forest Cutting Plan File Number: 234-7820-16

Site Information

Watershed: Quabbin	Town(s): Petersham
Acres: 37	Nearest Road: Route 32A a.k.a Hardwick Road
Natural Heritage Atlas overlap?: No	Public Drinking Water Supply Watershed?: Yes
Forest Types: Red Oak	ACEC?: No
Soils: Granite and Gneiss derived well drained tills	
Wetland Resources: None	
Vernal Pools:	

Harvest Information

Harvest Start Date: December 15, 2015	Harvest End Date: December 1, 2017
Number of Wetland Crossings: None	Number of Stream Crossings: None

Best Management Practices Applied

Stream Crossings	
Filter Strips	Two 50 ft. filter strips
Wetland Crossings	
Harvesting in Wetlands	

DWSP Forester supervising this harvest
Name: Derek Beard
Forester License #: 14
Phone #: 617-780-0631

NARRATIVES

General Description/Forest Composition/History

This project is situated on the lower east slope of Whitney Hill on the east side of Mary Tamplin Road. Forest cover consists of red oak sawtimber, mid canopy of mixed hardwood poles (red maple and birch) and scattered understory of mainly black birch saplings. The mid section of the project is home to a two acre inclusion of white pine sawtimber. The scattered sapling/pole understory was triggered by a mid 1980s shelterwood 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.

The area has an over abundance of high canopy large diameter trees and an under representation of young forest. Regeneration harvesting should rebalance species diversity and forest structure.

Objectives

Diversification of species and forest size class structure is the primary objective of this timber harvesting project. This will be accomplished by making a series of small forest openings randomly spaced through the area. Specifically, there are 14 openings covering 6 of the 37 acres with an average opening size of 0.4 acres. The well drained till soils are suited for hardwood regeneration. However, white pine is a possibility if the harvest is completed during a seed year.

Cultural Resources

The project is home to myriad stone walls associated with an old home site/farmstead located in the north central part of the area. The farmstead includes a cellar hole, fieldstone well and barn foundation. The area is also home to a long term permanent forest inventory plot also know as a continuous forest inventory plot (CFI).

Wildlife Resources

The project does not overlap with any rare and/or endangered species habitat. No unusual wildlife was observed during the planning or set up process for the project.

Figure 1. Approved and final report forest cutting plan

Figure2. Pre harvest photographs A-C

Figure 3. Post harvest photographs A-C

Figure 4. After one growing season photographs A-C

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 234-7820-16 Case No. _____
 Date Rec'd 10-1-2015 Nat. Hert. No
 Earliest Start 10-14-2015 Nat. Hert. Imp. N/A
 River Basin Quincy Pub. Dr. Wat. Quincy
 Gen. Obj. LT ACEC No

10-01-15 P12:48 IN

Location

TIMBER LOT 3140

Town Petersham
 Road Tamplin (Gate 39)
 Acres 37 Proposed Start Date _____
 Vol. MBF 44.4 Vol. Cds. 157 Vol. Tons 11

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 Allard Brothers Logging
 Address _____
 Town, State, Zip Hadley MA
 Phone 413-320-2158
 Mass. Lic. Harvester # 1513, 1590
 **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)	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

Codes

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom
LF Mass. Lic. For.	CU Culvert	SE Seed	FR Frozen	LE Ledge
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		

Note:
 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.

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*

Species	Mbf/Cds		Mbf/Cds
White Pine	1.8	Red Maple	
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	29.9
Hemlock		Black Oak	0.7
Spruce		White Oak	1.2
Other Sftwd.		Other Hdwd.	4.4
White Ash	2.0	Total Mbf	44.4
Beech		Cordwood (Cds)	157
White Birch		SW Pulp (Tons)	11
B & Y Birch	4.4	HW Pulp (Tons)	
Black Cherry		Chips (Tons)	

TIMBER LOT 3140

*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.

Stand Treatment

Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	OR	WP		
Acres	35	2		
Landowner Objective	LT	LT		
Designation of Trees	CT	CT		
Type of Cut	SE	CT		
Source of Regeneration	SE/AD	SE/AD		

Landowner

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

Service Forester

Determination and Status

234-7820-16

Approved Disapproved Expires

Cutting Plan



10/14/2017

Signature of Service Forester/Director's Agent

Date

Extension

1 ☐

2 ☐

Expires

10/14/15

Ser. For. Ints.

Amendment

App 1 ☐

Dis 1 ☐

App 2 ☐

Dis 2 ☐

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

Codes

Forest Types

WP White Pine HK Hemlock OM Mixed Oak
WK WP/Hem HH Hem/Hdwd RM Red Maple
WH WP/Hdwd BC Black Cherry BE Beech
WO WP/Oak BB Bee/Bir/Map SF Spruce/Fir
RP Red Pine OH Oak/Hdwd SM Sugar Maple
SR Red Spruce OR N Red Oak 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

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 3140

Landowner DCR-DWSP-Quab

Town Petersham

File Number 234-7820-16

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 14 canopy openings (patches) spread across 37 acres. Opening size ranges from 0.2 to 0.5 acres with an average of 0.4 of an acre. The 14 openings cover a total of 5.7 acres. Wildlife trees in openings have been identified (flagged) for retention.

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.

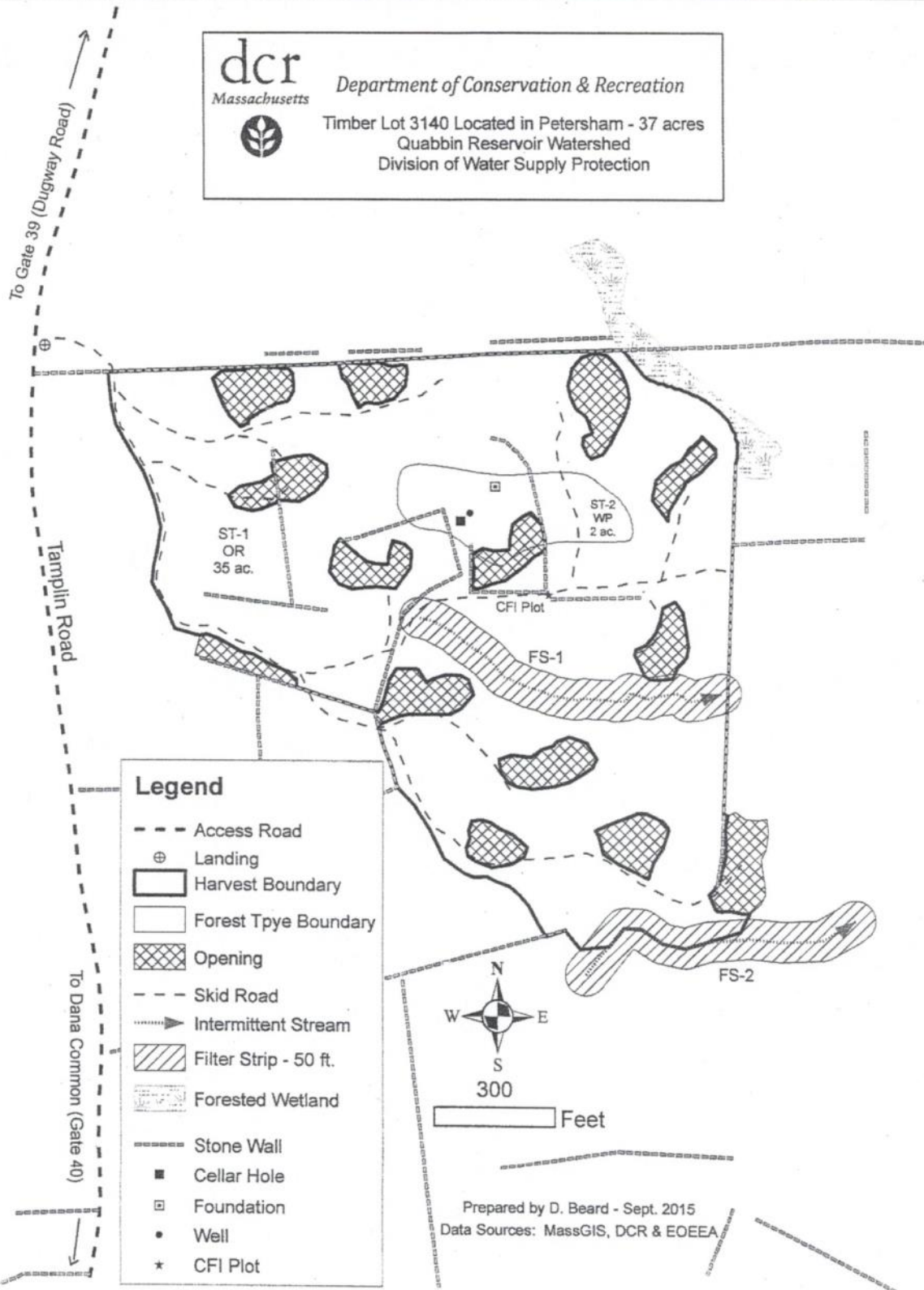
Desired Future Condition

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



Department of Conservation & Recreation

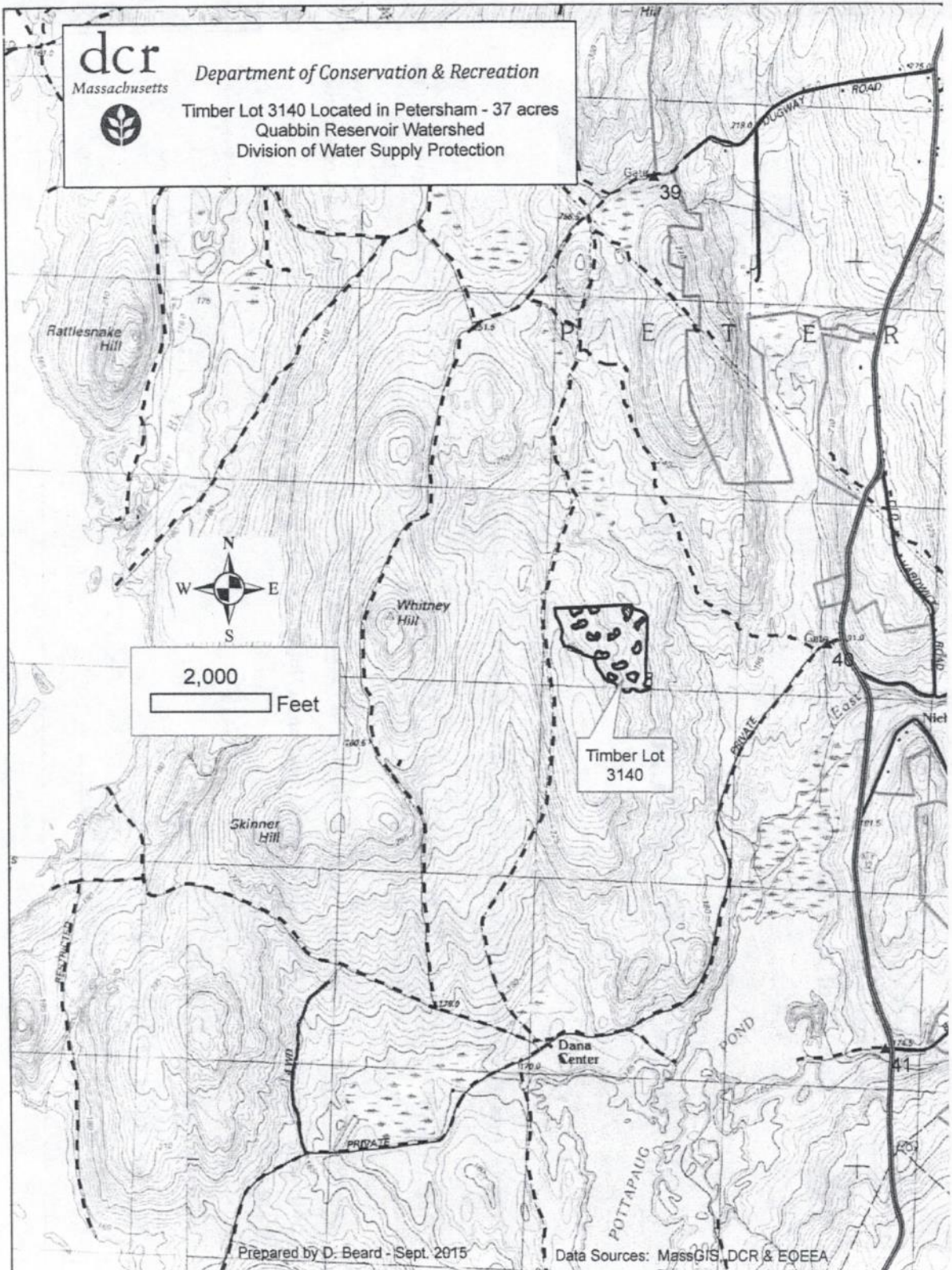
Timber Lot 3140 Located in Petersham - 37 acres
Quabbin Reservoir Watershed
Division of Water Supply Protection





Department of Conservation & Recreation

Timber Lot 3140 Located in Petersham - 37 acres
Quabbin Reservoir Watershed
Division of Water Supply Protection



Prepared by D. Beard - Sept. 2015

Data Sources: MassGIS, DCR & EQEEA



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

FILE # 234-7820-16

FOREST CUTTING PLAN CERTIFICATE

W

Post this in a conspicuous place within the area in which the harvesting operation is to take place.

This certifies that DCR - DUSP 485 Shore Rd Galesburg MA 01007 in accordance with the
(Name of Owner) (Address)

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

340 lot. GATE 39

Approval Date 10/14/15

Director's Agent Fletcher Clark

DCR Phone No. 413-262-2367

ISSUED BY:

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

Figure 2: Pre Harvest Photograph, (December 2015)

Pre harvest (December 2015)



Post harvest (March 2016)



After one growing season (July 2016)



After two growing seasons (August 2017)



After 3 growing seasons (July 2018)



Pre Harvest (December 2015)



Post harvest (March 2016)



After one growing season (July 2016)



After two growing seasons (August 2017)



After three growing seasons (July 2018)

