

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

Project Title: Potash Brook

DWSP Harvest Permit Number: 4393
DCR Forest Cutting Plan File Number: 021-8695-17

Site Information

Watershed: Ware River Watershed	Town(s): Barre
Acres: 7.0	Nearest Road: Coldbrook Rd
Natural Heritage Atlas overlap?: No	Public Drinking Water Supply Watershed?: Yes
Forest Types: White Pine/Hardwood	ACEC?: No
Soils: 253 B & C Hinckley loamy sand excessively drained, and 254 B Merrimac fine sandy loam 3- 8% slopes somewhat excessively drained.	
Wetland Resources: Wetlands and a pond are present, adjacent to but outside of harvest area. Potash Brook is adjacent to, but outside of the harvest area. A seasonal brook in the harvest area will be crossed.	
Vernal Pools present or within 200 feet of harvest : Yes.	

Harvest Information

Harvest Start Date: After 4/12/17	Harvest End Date: 6/27/17
Number of Wetland Crossings: None	Number of Stream Crossings: 1

Best Management Practices Applied

Stream Crossings	The crossing has been located in the best possible spot. Temporary skidder bridges will be used over the stream channel. The approaches to the crossing may be armored with brush or corduroyed if necessary. The approaches will be seeded post harvest.
Filter Strips	There is harvesting in filter strips.
Wetland Crossings	There are no wetland crossings.
Harvesting in Wetlands	There is no harvesting in wetlands.

DWSP Forester supervising this harvest	
Name:	Ken Canfield
Forester License #	431
Phone #:	508-882-3636 X 1603
Email:	kenneth.canfield@state.ma.us

NARRATIVE

General Description/Forest Composition/History:

The area adjacent to Coldbrook Rd was used as pasture land until the 1930's. The area was probably planted with eastern white pine and European larch. The white pine that now dominates the site is very low quality.

Overstory tree species diversity is relatively low. The harvest area is dominated by low quality "old pasture" white pine trees that are 80+ years old. Although there are scattered black cherry, red maple, European larch, hemlock, and red oak trees, they make up a very low percentage of overstory trees. Advanced regeneration of all species is abundant, and is much more balanced in terms of diversity.

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. DWSP recognizes that wildlife habitat management and restoration of rare habitats are important secondary goals, where they are compatible with maintaining high quality drinking water.

This area was specifically targeted because there is a 25 + acre stand dominated by poorly formed pasture white pine. That type of stand is relatively low in diversity of overstory tree species. The white pine trees that are present are also more prone to windthrow in a wind event because they are tall and multi-stemmed. The abundant advanced regeneration present consists of a more balanced species mix, and makes it more likely that the resulting stand will be established quickly and will be more diverse.

Silvicultural Objectives:

The silvicultural objective for this lot is to regenerate 7.0 acres of old pasture white pine stand to a more diverse stand with a higher percentage of dominant or co – dominant hardwood species, especially oak. This will be done in four groups that are 2.5 acres, 2.0 acres, 1.7 acres, and 0.8 acres in size.

Cultural Resources:

This land has been determined to not be culturally or archeologically sensitive based on a review by the DCR Archaeologist. Standard practice dictates that every effort is made to avoid disturbing stone walls and other cultural resources.

Wildlife/Rare or Endangered Species:

No known vernal pools are present within the lot. There is 1 vernal pool and 2 potential pools within 200 feet of the boundary of the lot. State CMP's and DWSP policy were implemented to mitigate potential impacts to these areas.

FIGURES

Figure 1 Final Forest Cutting Plan

Figure 2 A & B Pre-Harvest photographs from marked photo point 1 (A & B) taken 4/12/17

Figure 3 A & B Post-Harvest photographs from marked photo point 1 (A & B) taken 7/12/17

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)

MAR 06 2017

For DCR Use Only:

File Number 011-8195-17 Case No. _____
Date Rec'd 3/16/17 Nat. Hert. NO
Earliest Start 3/16/17 Pub. Dr. Wat. Ware River Intake
River Basin Chicopee ACBC NO
Gen. Obl. L3

Site Information

Location

Town Barre
Road Coldbrook Rd
Acres 7.0 Proposed Start Date 4/1/17
Vol. MBF 15.1 Vol. Cds. 38 Vol. Tons 521

Plan Preparer

Name Kenneth W. Canfield
Address 578 Old Turnpike Rd
Town, State, Zip Oakham, MA 01068
Phone (508) 892-3636
Type of Preparer LF
*Mass. Forester License # 431
*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 (413) 323 - 6921
Ch61 61A 61B Stew *Case #
FSC 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	BR			
Existing Structure	NO			
Type of Bottom	MU			
Bank Height (ft)	<1'			
Stabilization	SE			

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)	VA	VA	VA	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

Please notify DCR Service Forester when harvest begins
Some of the harvest areas fall into the outer limits of the filter strips. These areas have been reviewed by the Service Forester and were found to be adequately addressed by the plan preparer.

Final

Codes

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom	Notes
LF Mass Lic. For.	CU Culvert	SE Seot	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. Tin. Har.	BR Bridge	MU Moleh	DR Dry	ST Stony	
TB Timber Buyer	FO Ford	CO Contour	OT Other	MU Mud	
LC Landowner	PO Pofed	ST Stone		GR Gravel	
OT Other	OT Other	FIB Hay Bales		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	Mbf/Cds		Mbf/Cds
White Pine	15.1	Red Maple	
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	
Hemlock		Black Oak	
Spruce		White Oak	
Other Sitwd.		Other Hdwd.	
White Ash		Total Mbf	15.1
Beech		Cordwood (Cds)	38
White Birch		SW Pulp (Tons)	
B & Y Birch		HW Pulp (Tons)	
Black Cherry		Chips (Tons)	521

*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	WH	WH		
Acres	2.5	4.5		
Landowner Objective	LT	LT		
Designation of Trees	CT	CT		
Type of Cut	CC	SE		
Source of Regeneration	SE	SE		

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 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)

3-3-17
 Date

Service Forester

Determination and Status

Approved Disapproved Expires 3/6/19

Cutting Plan

Signature of Service Forester/Director's Agent Date 3/28/17

Extension 1 2 Expires 1 Ser. For. Ints. 1

Amendment App 1 Dis 1 App 2 Dis 2 1

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 3/28/17

*Landowner had soil and crossing
 were all stabilized at time of
 final inspection they were approved
 where pits were removed from
 banks.*

Codes

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

*If Other (OT) or a non-standard system is used an explanation must be given an attached narrative page

Stream Crossings

Indicate location on map	SC-5	SC-6	SC-7	SC-8	SC-9	SC-10
Type of Crossing						
Existing Structure						
Type of Bottom						
Bank Height (ft)						
Stabilization						

Wetland Crossings

Indicate location on map	WC-5	WC-6	WC-7	WC-8	WC-9	WC-10
Length						
Mitigation						
Stabilization						

Filter Strips

Indicate location on map	FS-5	FS-6	FS-7	FS-8	FS-9	FS-10
Width (50', 100' or VA)	VA	VA				

Harvesting in Wetlands

Indicate location on map	HW-5	HW-6	HW-7	HW-8	HW-9	HW-10
Forest Type (see pg 2)						
Acres to be Harvested						
Resid. Basal Area (>50%)						

Type of Crossing	Stabilization	Mitigation	Type of Bottom	Note
CJ Culvert	SB 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.
BR Bridge	MU Mulch	DR Dry	ST Stony	
FD Ford	CO Corduroy	OT Other	MU Mud	
PO Polec	ST Stone		GR Gravel	
OT Other	HB Hay Bales		OT Other	
	OT Other			

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

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 - DWSP

Town Barre

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.
 Stand 1 is an old field white pine - hardwood stand. A 2.5 acre opening (clearcut) will be established, leaving 5 - 10 square feet of basal area per acre of residual overstory trees, mostly oak and black cherry, for aesthetic purposes. Stand two is an old field white pine - hardwood stand. Three group selection openings of 0.8, 1.7, and 2.0 acres will be established, leaving 5 - 10 square feet of basal area per acre of residual overstory trees, mostly oak, for aesthetic purposes.

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 (IG, DL, or OT) was used for the "Type of Cut" in the Cutting Standards Section on page 4.

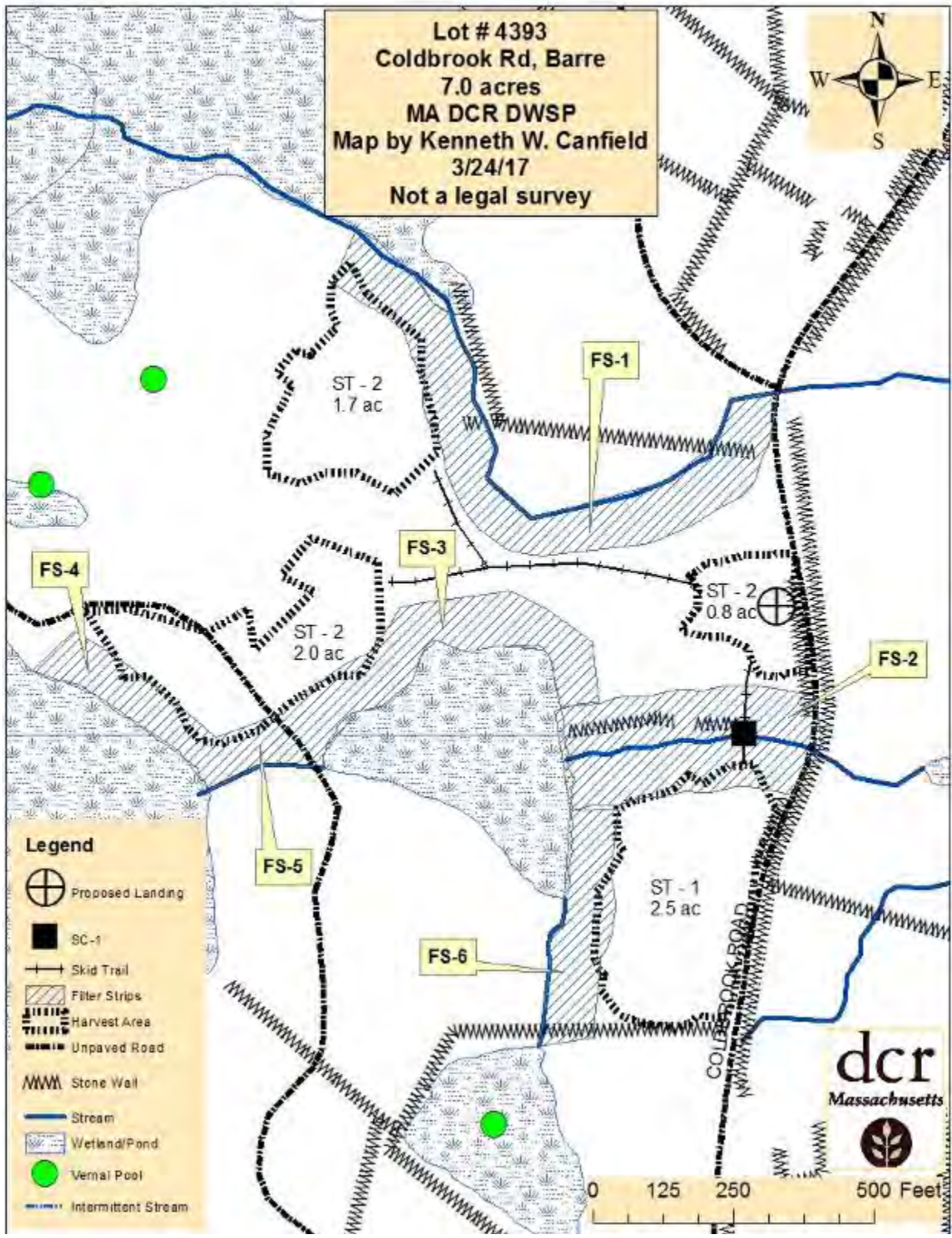
Stand No. Source of Regeneration (ex. AD, SE) How will Regeneration be obtained/protected?
 If using AD - Describe the species present and how the regeneration will be protected
 If using SE - Describe the source of the seed and the number of seed trees/acre

Stand No.	Source of Regeneration (ex. AD, SE)	How will Regeneration be obtained/protected?

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 & understorey

Stand No.	Desired Future Condition

Lot # 4393
 Coldbrook Rd, Barre
 7.0 acres
 MA DCR DWSP
 Map by Kenneth W. Canfield
 3/24/17
 Not a legal survey



Lot # 4393
Coldbrook Rd, Barre, MA
7 Acres
MA DCR
Division of Water Supply Protection
Prepared by Kenneth W Canfield 2/28/17
Data Sources: MassGIS, DCR & EOEEA
Not a legal survey



- Legend**
- Harvest Area
 - Property Boundary



Department of Conservation & Recreation



dc



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

FILE # 021-8695-17

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 Bebhertown, MA in accordance with the
(Name of Owner) (Address) 01007

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

Approval Date 3/28/17
Director's Agent Kate Marquis
DCR Phone No. (413)992-8734

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

Figure 2 A & B: Pre-Harvest Photographs taken from marked photo point 1 (A & B) taken 4/12/17

A. Point 1 taken 4/12/17 towards WSW



B. Point 1 taken 4/12/17 towards WNW



Figure 3 A & B Post-Harvest photographs from marked photo point 1 (A & B) taken 7/12/17

A. Point 1 taken 7/12/17 towards WSW



B. Point 1 taken 7/12/17 towards WNW

