Forest Cutting Plan

and Notice of Intent under M.G.L. nc7 0 3 2016 Chapter 132 – The Forest Cutting

Practices Act, 304 CMR 11.00

(Effective Date: 1/1/04)

DEC 1 2 2016

For DCR L	Jse Only:		-6 10000
File Number	1288401-17	Case No.	1818 -10030
Date Rec'd		Nat. Hert.	<u>/</u>
Earliest Start	70/18/110	Nat. Hert. In	ıp
River Basin	Merrimack	-Pub. Dr. Wa	· yes
Gen. Obj.	17	ACEC	
		C. Free	THaver Lill

Landowner Location City of Haverhill Haverhill Name Town Mailing Address C/o Robert Moore Lake Street Road City Hall Room 300, 4 Summer Street Proposed Start Date 9/15/2016 65.5 +/-Town, State, Zip Haverhill, MA 01830 Vol. MBF 116.352 Vol. Cds. 48+/- Vol. Tons 1.965+/-978-374-2334 Ch61 ☐ Ch61A ☐ CH61B ☐ Stew 🖾 *Case # 188 - 1003 Plan Preparer FSC GC CR CR Holder Gary H. Gouldrup, NEFCo Name Licensed Timber Harvester** 72 Townsend Street Address Name Address Town, State, Zip Pepperell, MA 01463 Town, State, Zip _ 978-433-8780 Phone Phone Type of Preparer Mass Licensed Forester - LF Mass. Lic. Harvester # *Mass. Forester License # ___81_ **This information may be supplied after the plan is approved, but before *Required for land under Ch61, Ch61A or Forest Stewardship work begins. Harvesting in Wetlands Stream Crossings HW-4 SC-5 HW-3 Indicate location on map HW-I HW-2 SC-3 SC-4 SC-2 Indicate location on map SC-I NΛ Forest Type (see pg 2) WP ΜH OH BRCU NA BR BR. Type of Crossing $0.5 \pm / -$ 0.5 + / -Acres to be Harvested 1+/-3÷/-Yes No No **Existing Structure** Resid. Basal Area STMU MU Cement Yes Type of Bottom Yes Yes (>50%?)Bank Height (ft) 0.5 2-3 ST COMU Stabilization Service Forester Comments Wetland Crossings WC-5 WC-1 WC-2 WC-3 WC-4 Indicate location on map 15' 301+/-75'+/-30`+/-Length of Crossing 60'+/-DRFR DRFR DRFR DRFR DRFR Mitigation COMU COMU COMU Stabilization Filter Strips FS-5 FS-4 FS-I FS-2 FS-3 Indicate location on map NΛ VAWidth (50', 100', or VA) V٨

LO

Other

Culvert BR Bridge FΟ Ford Landowner PO Poled OT Other

Type of Crossing Stabilization SE MU Mulch CO ST

OT

Seed Cordurey Stone Hay Bales HB

Other

Mitigation FR Frozen DR Dry ΩT Other

LE Ledge Stony Мυ Mud Gravel* GR Other OT

Type of Bottom

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

D	roducts	to	he	Hanz	*Acted
Г	JUUULLS	LU	υe	naiv	esteur

Species	Mbf/Cds		Mbf/Cds
White Pine	98.356	Red Maple 6.730	
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	4.726
Hemlock		Black Oak	3.902
Spruce		White Oak	
Other Sftwd.		Other Hdwd.	
White Ash	0.434	Total Mbf	116.352
Beech		Cordwood (Cds)	48+/-
White Birch		HK Pulp (Cds)	
B & Y Birch	2.204	HW Pulp (Tons)	
Black Cherry		Chips (Tons)	1,965+/-

*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	OH	WP	MIH		
Acres ·	5:0+/-	33.0+/	7.5+/-	4.0+/-	
Landowner Objective	ĻŤ	LT	LT	LT	
Designation of Trees	СТ	CT	CT	CT	
Type of Cut	SE	SE	SE	SE	
Source of Regeneration	AD-SE	AD-SE	AD-SE	AD-SE	

See Page 5 for Stand 5

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.

9/1/20/10

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		
Determination and Status	Final Report and Comments		
Approved Disapproved Expires Cutting Plan	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	Signature of Service Forester/Director's Agent Date		
Expires Ser. For. Ints.			

App 1 Dis 1 App 2 Dis 2 Amendment	DATEMBION	1	- الله			 	
	Amendment	Ė		Dis 2		 4	

Fores	st Types				
WP	White Pine	ЫK	Hemlock	ОМ	Mixed Oak
WK	WP/Hem	田田	HenvHdwd	RM	Red Maple
WH	WP/Hdwd	BC	Blck Cherry	BE	Beech
WO	WP/Oak	BB	Bee/Bir/Map	SF	Spruce/Fir
RP	Red Pine	HO	Oak/Hdwd	SMI	Sugar Mapl
SR	Red Sprace	OR	N Red Oak	PΡ	Pitch Pine

<u>Des</u>	ignation of Trees
ĊТ	Cut Tree
LT	Leave Tree
SB	Stand Boundary
OT	Other ·
Lanc	Jowner Objective
LT	Long-term Mgt

Short-term Har.

Type	Type of Cut					
SH	Shelterwoo					
ST	Seed Tree					
CC	Clear Cut					
SE	Selection					

Sanitation

Inte	rmediale Harvests
CT	Commercial Thin
NΤ	Non Com Thin
Non	-Standard Systems

Highgrade* Diameter Limit* Other*

Source of Regeneration AD Advanced SE Natural Seed PL Plant CO Coppide DS Direct Seed OT Other

Stand Treatment

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.

Landowner

City of Haverhill

Town

Haverhill

File Number

128-8407-17

Cutting Standards

Indicate location on map	ST-5	ST-6
Forest Type	wo	NA
Acres	16.0+/-	
Landowner Objective	LT	
Designation of Trees	СТ	
Type of Cut	SE	
Source of Regeneration	ADSE	

Stand Type 1 (ST-1):

This mixed oak and mixed hardwood stand will be treated as an improvement thinning by individual and group selection harvesting aimed at reducing the basal area by approximately 25-33%. The desire is to open the understory for new production of native tree species and to develop wind firm trees with healthy crowns in the overstory. Removing the target canker damaged black birch is a high priority.

Stand Type 2 (ST-2):

This white pine forest type will be treated in a shelterwood harvesting system where individual and small groups will be removed from the overstory. The desire is to open the understory for new production of native tree species and to develop wind furn trees with healthy crowns in the overstory. Approximately 25-33% of the basal area and overstory volume will be removed in this harvest. A focus will be to harvest trees that have been damaged in past forest fires and are now hazard trees along trails.

Stand Type 3 (ST-3):

This red maple and mixed hardwood forest type will be treated as an improvement thinning by individual and group selection harvesting aimed at reducing the basal area by approximately 25-33%. The desire is to open the understory for new production of native tree species and to develop wind firm trees with healthy crowns in the overstory.

Stand Type 4 (ST-4):

This red oak and mixed hardwood forest type will be treated as an improvement thinning by individual and group selection harvesting aimed at reducing the basal area by approximately 25-33%. A focus will be to harvest trees that have been damaged in past forest fires and are now hazard trees along trails.

Stand Type 5 (ST-5):

This white pine and mixed oak stand will be treated as an improvement thinning by harvesting individual and small groups of trees. The harvest will remove approximately 25-33% of the basal area and overstory volume, although recent forest fires have caused severe damage in sections of this stand and the harvesting intensity will be greater in these areas. A focus will be to harvest trees that have been damaged in past forest fires and are now hazard trees along trails.

Forest Cutting Plan

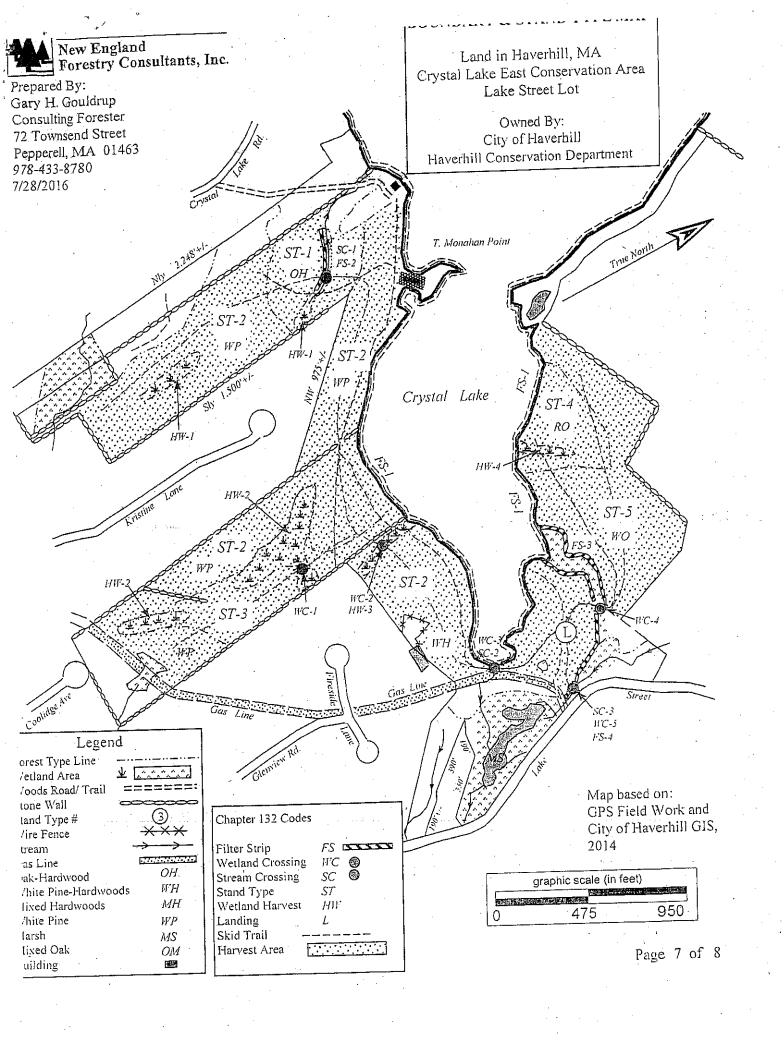
Narrative Page (Effective Date: 1/1/04)
Use this page to provide further explanation or if
Other (OT) was used in any category on pages 3 or 4.

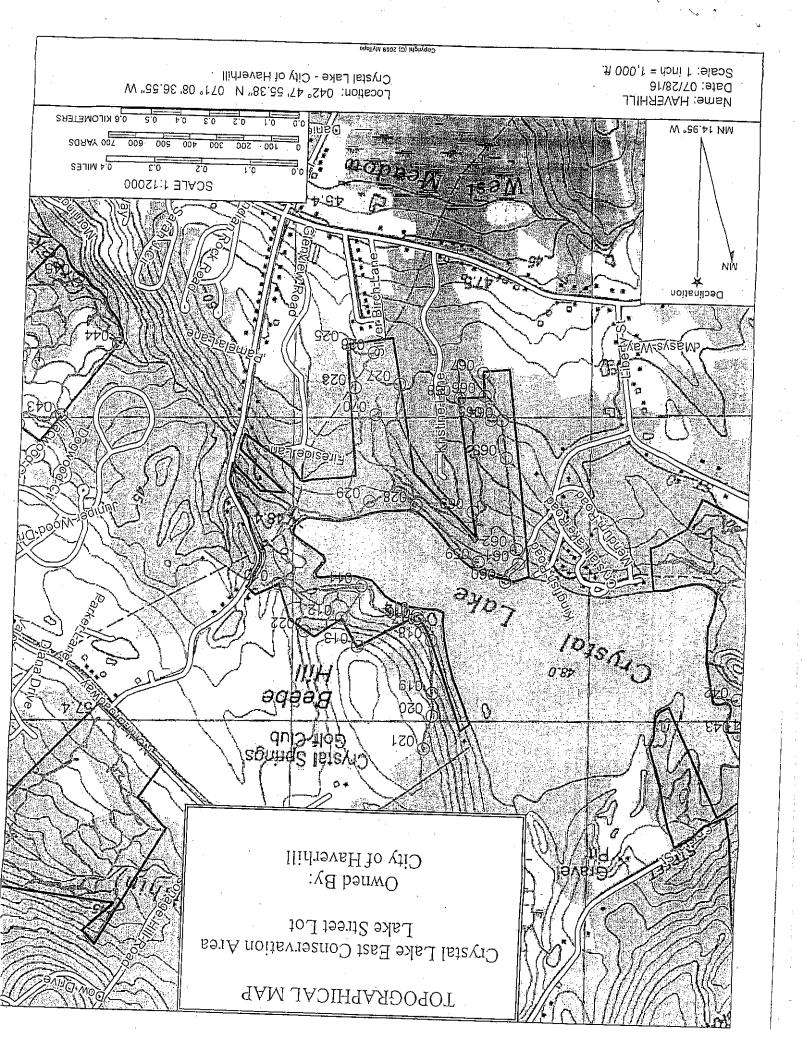
Landowner	City of Haverhill			
Town	Haverhill			

File Number 128-8407-1

				ditions are dry, frozen or otherwis	
2) Bridge replace	ed.	ali stream c	rossings except SC-2. SC-2 is	an existing cement ford and spilly	vay which will eventually
3) Whole	e-tree chipping w	ill be condu	cted during the harvest for aest	hetics, fire protection, and wood t	ıtilization.
4) Install	water bars on ste	ep slopes w	here necessary		
- Use	this Section to des	cribe the type	es of trees to be harvested and/or re in the Stand Treatment Sec	etained if Other (OT) was used for "D tion on page 4.	esignation of Trees".
Stand No.	Species to b	e Cut	Size of Trees to be Cut	Quality of Trees to be Cut	% BA/Acre Removed
	BB. RM. OM. ' WP, MH, OM		All Sizes All Sizes	Poor to Good Poor to Good	25-33% +/- 25-33% +/-
3	MH, WP, RM, BB		All Sizes	Poor	25-33% +/-
4 & 5	WP, OM, BB,	МН	All Sizes	Poor to Good	25-40% ÷/-
	Use this Section		ow Chapter 132 requirements will for the "Type of Cut" in the Cuttin	be met if a non standard system (HG g Standards Section on page 4.	, DL, or OT)
Stand No.	Source of Regeneration (ex. AD, SE)	1		ed/protected? present and how the regeneration wil f the seed and the number of seed tree	
1-5	AD			gs will be protected by directional ted prior to harvesting to protect a	
	SE	The source	e of regeneration will be high qua	lity white pine, mixed oak, and mixed	l hardwood trees.
Stand No.	Describe what t	he stand is ex	Desired Future Condition	n n the harvest, including the condition	of the overstory & understo
Stanta 140.			Management Plan on file		

SC-2 and WC-3 will be on the east side of the cement dam. This cement dam will eventually be rebuilt.





COMMONWEALTHROPMASSACHUSETTS

128-8967-17



Department of Conservation and Recreation Division of State Parks and Recreation

FOREST CUTTING PLAN CERTIFICATE

and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the	provision of M.G.L. Chapter 132, Section 40-46, filed in	This certifies that Life of Hell (Name of Owner)
), a Notice of Intent to cut forest products u		(Address) YS
pon the	with the Dept. of Conservation	in accordance with the

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

Director's Agent Laula Doeley

DCR Phone No. 978-937-2092 X 112

Priscilla E. Geigis, Director

ISSUED BY:

Division of State Parks and Recreation

Approval Date 12/17/16

		·		4 ,	:
•					
					-