

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

Project Title: Prison Camp Rd/Elm St.

DWSP Harvest Permit Number: WR 4387
DCR Forest Cutting Plan File Number: 257-7759-16

Site Information

Watershed: Ware River	Town(s): Rutland
Acres: 20	Nearest Road: Elm St
Natural Heritage Atlas overlap?: No	Public Drinking Water Supply Watershed?: Yes
Forest Types: White pine, White pine/hardwood, spruce	ACEC?: No
Soils: Most of the lot is on 910C Woodbridge-Paxton, fine sandy loam, extremely stony, moderately well-drained. There is also 902E Charlton-Paxton association, extremely stony, well drained.	
Wetland Resources: Lot is adjacent to wetlands and the Ware River.	
Vernal Pools: Yes	

Harvest Information

Harvest Start Date: 12/23/15	Harvest End Date: 1/22/16
Number of Wetland Crossings: None	Number of Stream Crossings: None

Best Management Practices Applied

Stream Crossings	There are no stream crossings.
Filter Strips	There are no filter strips.
Wetland Crossings	There are no wetland crossings.
Harvesting in Wetlands	There is no harvesting in wetlands.

DWSP Forester supervising this harvest	
Name: Kenneth W. Canfield	
Forester License #: 431	
Phone #: 508-882-3636 ext.1603	

NARRATIVE

General Description/Forest Composition/History:

The overstory is mostly overmature, poorly formed white pine with mixed hardwood. There are patches of planted larch and spruce present as well. Species present are white pine, red maple, black cherry, European larch, white spruce, with scattered hemlock and red and white oak. The area has been harvested in the past, which created gaps in the overstory and established diverse regeneration consisting mostly of white pine, red maple, and oak.

Invasive barberry and buckthorn are present, but being out competed by established native regeneration.

The soil is moderately well drained.

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 mature trees). In addition, the forest should be vigorous; actively growing and regenerating. A forest in this condition is resilient to and quickly recovers from small and large scale disturbances such as disease, insect infestation, ice storms and hurricanes.

Silvicultural Objectives:

The main purpose of this harvest is to diversify and regenerate the forest, and remove non-native and poorly formed trees. Small (up to 1/3rd of an acre) groups of trees will be removed, generally in areas where the trees have the lowest vigor and poorest form, where diverse regeneration is present, and where non – native overstory trees dominate.

This treatment should increase the diversity of species and will increase the age and structural diversity of the forest as a whole.

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. There are multiple walls on this lot that will need to be crossed. Existing barways will be used to cross walls, but will need to be widened due to the size of modern harvesting equipment.

Wildlife/Rare or Endangered Species:

There is one known vernal pool adjacent to the harvest area. The vernal pool has been mapped and buffered from timber harvesting to provide adequate protection to the species that utilize it, and in accordance with the Massachusetts Forestry Best Management Practices Manual and the Division of Water Supply Protection Comprehensive Land Management Plan.

A variety of wildlife such as deer, turkey, coyote and moose are known to frequent the lot and beaver and otter are in adjacent wetlands. Most snags and trees with stick nests, dens or unusual wildlife habitat characteristics will be retained.

FIGURES

Figure 1 Final Forest Cutting Plan

Figure 2 Pre-Harvest photograph from marked photo point 1, taken 10/20/15

Figure 3 A & B Post-Harvest photographs from marked photo points 1 and 2, taken 12/13/15

Figure 4 A & B After one growing season photographs from marked photo points 1 and 2, taken 7/27/16

Figure 5 A & B After two growing seasons photographs from marked points 1 and 2, taken 7/17/17

Figure 1: Final Cutting Plan

Forest Cutting Plan

and Notice of Intent under M.G.L. Chapter 132 – The Forest Cutting Practices Act, 304 CMR 11.00 NOV 09 2015 (Effective Date: 1/1/04)

For DCR Use Only:

File Number 222-7894-110 Case No. _____
 Date Rec'd 11-9-15 Nat. Hert. Yes /
 Earliest Start 11-24-16 Nat. Hert. Imp. No - see attached
 River Basin Chicopee Pub. Dr. Wat. Yes
 Gen. Obj. LT ACEC No

FINAL

Site Information

Location

Town Oakham
 Road Coldbrook Rd
 Acres 23 Proposed Start Date 12/1/15
 Vol. MBF 31.5 Vol. Cds. 105 Vol. Tons 330

Plan Preparer

Name Kenneth W. Canfield
 Address DCR Division of Water Supply Protection
578 Old Turnpike Rd
 Town, State, Zip Oakham, MA 01068
 Phone (508) 882 - 3636 ext. 1603
 Type of Preparer Mass Licensed Forester
 *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 # _____
 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.

FINAL

Best Management Practices

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)				

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

Notify DCR Service Forester when harvest begins
See attached NHEBP renew

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

Forest Products

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	3.9 M	Red Maple	
Red Pine	21.6 M	Sugar Maple	
Pitch Pine		Red Oak	4.8 M
Hemlock		Black Oak	0.9 M
Spruce		White Oak	0.3 M
Other Sftwd.		Other Hdwd.	
White Ash		Total Mbf	31.5
Beech		Cordwood (Cds)	105
White Birch		SW Pulp (Tons)	330
B & Y Birch		HW Pulp (Tons)	
Black Cherry		Chips (Tons)	

*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	RP	WO	OM	
Acres	1.	18.6	2.9	
Landowner Objective	LT	LT	LT	
Designation of Trees	CT	CT	CT	
Type of Cut	SA	SE	SE	
Source of Regeneration	SE	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 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.

[Handwritten Signature]

Signature of landowner(s)

11-6-18

Date

Service Forester

Determination and Status

Approved Disapproved Expires *11/9/2017*

[Signature]

Signature of Service Forester/Director's Agent Date *11/24/2015*

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] *3/22/2016*

Signature of Service Forester/Director's Agent Date

Codes

Forest Types	Designation of Trees	Type of Cut	Source of Regeneration
WP White Pine	CT Cut Tree	SH Shelterwood	AD Advanced
WK WP/Hem	LT Leave Tree	ST Seed Tree	SE Natural Seed
WH WP/Hdwd	SB Stand Boundary	CC Clear Cut	PL Plant
WO WP/Oak	OT Other	SE Selection	CO Coppice
RP Red Pine	Landowner Objective	SA Salvage	DS Direct Seed
SR Red Spruce	LT Long-term Mgt	SN Sanitation	OT Other
	ST Short-term Har.	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.

Landowner DCR, DWSP
 Town Rutland
 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.

Group selection harvest targeting low quality or declining white pine, larch, spruce, and hardwood. Twenty three groups marked from 1/10th acre to 1/3 acre in size. Trees marked with blue paint are to be cut. Trees marked with orange paint or unmarked are to be left.

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

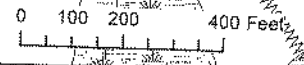
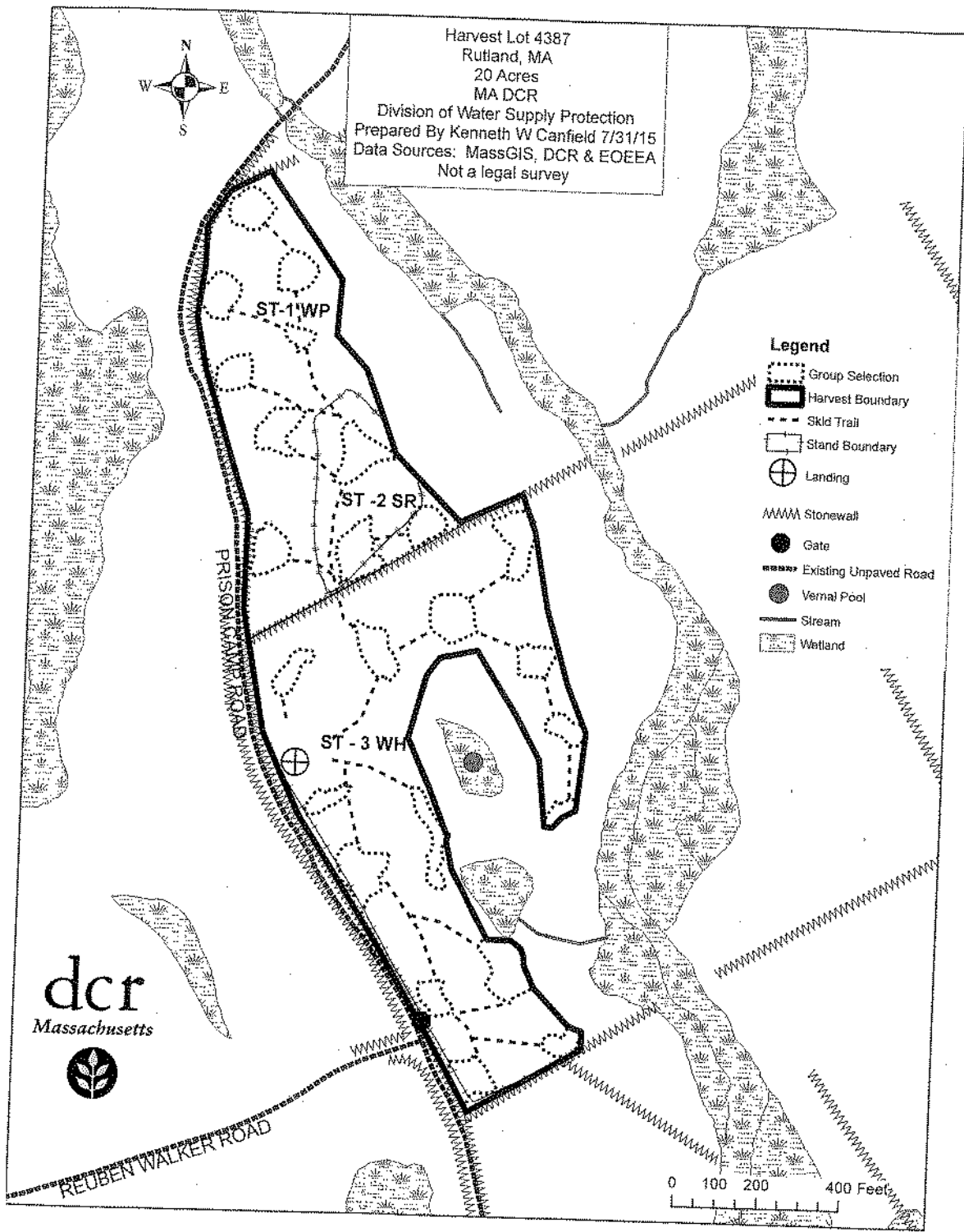
Use this Section to describe how Chapter 132 requirements will be met if a non standard system (HG, DL, or OT) was used for the "Type of Cut" in the Cutting Standards Section on page 4.

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

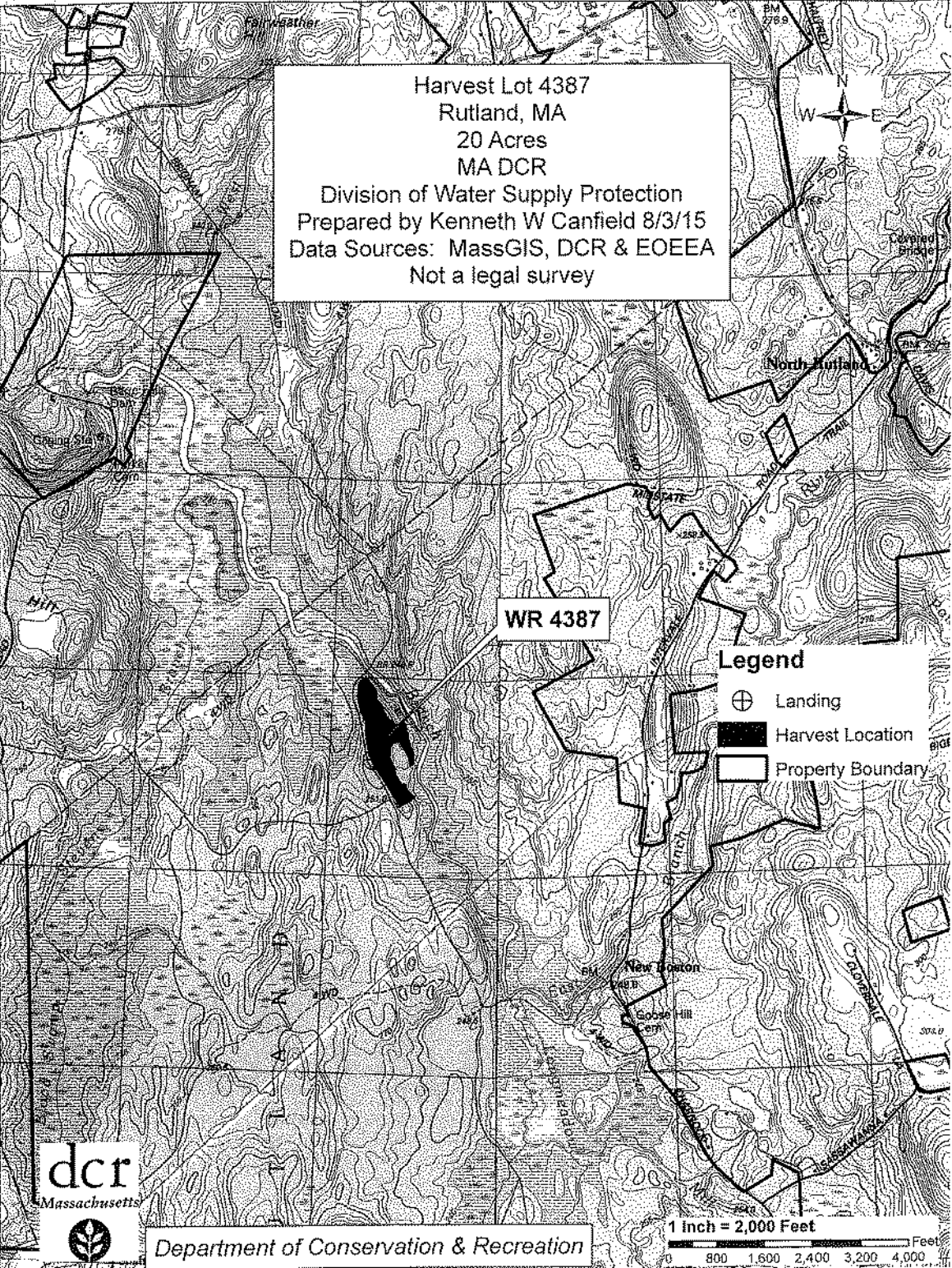
Stand No. **Desired Future Condition**
 Describe what the stand is expected to look like five years from the harvest, including the condition of the overstory & understory



Harvest Lot 4387
Rutland, MA
20 Acres
MA DCR
Division of Water Supply Protection
Prepared By Kenneth W Canfield 7/31/15
Data Sources: MassGIS, DCR & EOEEA
Not a legal survey



Harvest Lot 4387
Rutland, MA
20 Acres
MA DCR
Division of Water Supply Protection
Prepared by Kenneth W Canfield 8/3/15
Data Sources: MassGIS, DCR & EOEAA
Not a legal survey



Legend
⊕ Landing
■ Harvest Location
□ Property Boundary



Department of Conservation & Recreation

1 inch = 2,000 Feet
0 800 1,600 2,400 3,200 4,000 Feet



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

FILE # 257-7759-16

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 DWSP/DCR 578 Old Turnpike Rd
(Name of Owner) (Address) Oakham, MA 01068 in accordance with the

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
Prison Camp lot.

Approval Date 8/21/2015
Director's Agent Kate Marquis
DCR Phone No. (413)992-8734

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

Figure 2. Pre-Harvest photograph from marked photo point 1, taken 10/20/15



Figure 3 A & B. Post-Harvest photographs from marked photo points 1 and 2, taken 12/13/15

A. Photograph from marked point 1, looking north, road can barely be seen on left edge of photo, taken 12/13/15



B. Photograph from marked point 2, looking northeast, taken 12/13/15



Figure 4 A & B. After one growing season photographs from marked photo points 1 and 2, taken 7/27/16

A. Photograph from marked point 1, looking north, road can barely be seen on left edge of photo, taken 7/27/16



B. Photograph from marked point 2, looking northeast, taken 7/27/16



Figure 5 A & B After two growing seasons photographs from marked points 1 and 2, taken 7/17/17

A. Photograph from marked point 1, looking north, road can barely be seen on left edge of photo, taken 7/17/17



B. Photograph from marked point 2, looking northeast, taken 7/17/17

