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: 3139 |
|--|
| DCR Forest Cutting Plan File Number: 204-7780-16 |

Site Information

| Watershed: Quabbin | Town(s): New Salem | | | |
|---|--|--|--|--|
| Acres: 22.6 | Nearest Road: South Main Street | | | |
| Natural Heritage Atlas overlap?: Yes | Public Drinking Water Supply Watershed?: Yes | | | |
| Forest Types: hemlock-hardwood and mixed oak | ACEC?: No | | | |
| Soils: Canton-Chatfield-Hollis complex and Chatfield- | Hollis complex, rocky | | | |
| Wetland Resources: None within harvest area. Two small wetlands connected by an intermittent stream | | | | |
| are about 100 feet to the east. | | | | |
| Vernal Pools: The wetlands are both vernal pools. | | | | |

Harvest Information

| Harvest Start Date: December 2015 | Harvest End Date: August 28, 2017 |
|-----------------------------------|-----------------------------------|
| Number of Wetland Crossings: None | Number of Stream Crossings: None |

Best Management Practices Applied

| Stream Crossings | There are no stream crossings. |
|------------------------|--|
| Filter Strips | Along water resources to the east, variable width filter strips for streams, |
| - | 100 foot filter strips for vernal pools/wetlands. |
| Wetland Crossings | There are no wetland crossings. |
| Harvesting in Wetlands | There is no harvesting in wetlands. |

| DWSP Forester supervising this harvest |
|--|
| Name: Helen Johnson |
| Forester License #: 383 |
| Phone #: 978-544-6343 |
| Email: Helen.Johnson@state.ma.us |
| |

NARRATIVE

General Description/Forest Composition/History:

The area to be harvested is in the town of New Salem at the south end of South Main Street, just inside DCR Gate 25. To the east are two wetlands connected by an intermittent stream that continues south into an extended stream-wetland complex. To the west are steep slopes leading down to the Gate 24 access road, and beyond that, Hop Brook. To the south is a stone wall, which indicates that this area was probably cleared for agriculture in the 18th and 19th centuries.

The area to be cut is dominated by hemlock that is rapidly failing due to a combination of hemlock pests (hemlock woolly adelgid, hemlock elongate scale, hemlock looper). Black birch and oaks are the primary associated hardwoods in the overstory, along with a minor component of white pine. Hemlock decreases and mixed oaks become dominant towards the south end of the lot.

The forest floor is almost completely bare in the areas with dense hemlock, save occasional small patches of mountain laurel and hemlock seedlings growing in old skid roads. Areas with less hemlock in the overstory tend to have more regeneration in the sapling-pole size classes, but still very few tree seedlings.

The soils on this lot are primarily Canton-Chatfield-Hollis complex and Chatfield-Hollis complex. These are well drained glacial till soils derived from schist and gneiss. There is some exposed bedrock at the south end of the lot.

Site Selection:

The primary goal of harvesting on the watershed is to create and maintain a forest that is resilient to and can quickly recover from small and large scale disturbances such as diseases, insect infestations, ice storms and hurricanes, all of which are becoming increasingly common. The ideal way to achieve this is to have a diversity of species in various stages of development (seedlings through large legacy trees) that are actively growing and regenerating. This combination of structural and species diversity builds resistance and resilience into the forest.

On this particular lot, if the hemlock were left to die on their own, research and experience have shown that they would likely be replaced by a near monoculture of black birch. Hence, one of the primary goals of this harvest is to improve the species diversity of the next generation of trees. A secondary goal is to reduce the number of hazard trees along the road, which gets frequent recreational use.

Silvicultural Objectives:

This harvest focuses on removal of the overstory in small groups, up to ½ acre in size, in order to foster regeneration. Groups were placed where there were clusters of trees that were declining or had weak stem form, with a preference for cutting declining hemlocks. These vulnerable trees will be replaced with vigorous new seedlings. Wherever possible wildlife habitat features were maintained and

protected, such as snags (dead trees) and trees with cavities or raptors' nests. The full diversity of existing native tree species is being maintained and promoted. Relatively healthy hemlocks have also been retained in the hope that this species might recover, although this appears unlikely on this site due to the rapid rate of decline.

Cultural Resources:

A stone walls borders the south end of the lot, and there are deteriorating walls along the access road. These walls will be avoided and protected during the harvest. Otherwise, this area has been determined not to be culturally or archeologically sensitive based on a review by the DCR Archaeologist.

Wildlife/Rare or Endangered Species:

The southern third of this lot is within a habitat "bubble" designated for protection by the Natural Heritage and Endangered Species Program (NHESP). The protected area centers on Hop Brook, which is 500-1000 feet away, at the base of a long, steep slope to the west. NHESP has determined the harvest will have no impact on protected species, and does not need to be restricted in any way.

The lot contains no other known rare or endangered species. Critical habitats are limited to the aforementioned vernal pools, which are 100 feet or more outside the lot to the east. Common wildlife on this site includes deer, turkey, coyote and moose.

FIGURES

Figure 1. Forest Cutting Plan

Figure 2. Photo Series 1: Opening on the east side of the access road.

- A. Before Harvest, December 2015
- B. Immediately After Harvest, June 2016
- C. After One Growing Season, August 2017

Figure 3. Photo Series 2: Opening on the west side of the access road.

- A. Before Harvest, December 2015
- B. Immediately After Harvest, June 2016
- C. After One Growing Season, August 2017

Figure 4. Photo Series 3: Opening south of the fire line, near the north edge of the lot.

- A. Before Harvest, December 2015
- B. Immediately After Harvest, June 2016
- C. After One Growing Season, August 2017

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|------------------|---|---|----------------------------------|---------------------|--------|---|--|--|-----------|------------------------------|---------------------------|------|
| | Location | | /1 | inerame | ert Ad | ld Wat | | wner | _ | | | |
| | | | | | | - | | | | | | |
| | Town New Salem | L. | OT 313 | 39 | | 1 | Name | DCR-DWSF | Quabbin | Section | | _ |
| Ę | Road South Main S | Street | | | | 1 | Mailing | Address 485 V | Vare Road | | | |
| S | Acres22.6 | Acres Proposed Start Date Sept. 2015 | | | | 5 | | 100101027 | Hele | n.Johnso | n@state. | ma.u |
| la | Vol. MBF_53.8 Vo | ol. Cds. | 53 | Vol. Ton | s 54 | 1 | Town, S | state, Zip Belch | ertown, N | A 0100 | 7 | |
| E | | | | | | - I | Phone | 978-5 | 44-6343 | 1.41 | | |
| 2 | Plan Preparer | | | | | (| Ch61 | 61A 61B | Stew | *Case | e # | |
| Site Information | Name in the local data | | | | | (| CR 🗌 | CR Holder | | | 1011 | |
| e | Name Helen John | ison | | | | | | | | | | |
| Si | Address DCR-DWS | SP Quabb | in Section | 1 | | Ļ | Icens | sed Timber | Harve | ster** | | |
| | 485 Ware . | Road | | | | 1 | Name | TBD | | | | |
| | Town, State, Zip Belcl | hertown, l | MA 0100 |)7 | | | Address | | | | | |
| | Phone 978- | 544-6343 | | | | | Town, S | State, Zip | | | | |
| | Type of Preparer Mass | License | d Forester | - | | | Phone _ | | | | | |
| | *Mass. Forester License | # 383 | | | | 1 | Mass. L | ic. Harvester # | | | | |
| | Stream Crossing | | _ | | | | | | Netlan | | | |
| | | SC-1 | SC-2 | SC-3 | SC-4 | 1 | Indicate | location on man | - | | LINV 3 | |
| S | Indicate location on map | SC-1 | SC-2 | SC-3 | SC-4 | | | location on map | HW-1 | HW-2 | HW-3 | HV |
| ces | Indicate location on map Type of Crossing | SC-1 | SC-2 | SC-3 | SC-4 | - | Forest | Гуре (see pg 2) | - | | HW-3 | HV |
| ctices | Indicate location on map Type of Crossing Existing Structure | SC-1 | SC-2 | SC-3 | SC-4 | | Forest Acres to | | - | | HW-3 | HV |
| ractices | Indicate location on map Type of Crossing Existing Structure Type of Bottom | SC-1 | SC-2 | SC-3 | SC-4 | | Forest Acres to | Type (see pg 2) o be Harvested Basal Area | - | | HW-3 | HV |
| Pra | Indicate location on map Type of Crossing Existing Structure Type of Bottom Bank Height (ft) | SC-1 | SC-2 | SC-3 | SC-4 | | Forest Acres to Resid. I | Type (see pg 2) o be Harvested Basal Area | - | | HW-3 | HV |
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| agement Pra | Indicate location on map Type of Crossing Existing Structure Type of Bottom Bank Height (ft) Stabilization Wetland Crossing Indicate location on map Length of Crossing Mitigation Stabilization Filter Strips Indicate location on map | gs No WC-1 FS-1 VA | Crossings WC-2 FS-2 50* | WC-3 FS-3 50* | WC-4 | | Forest 7 Acres to Resid. I (>50%? | Type (see pg 2) o be Harvested Basal Area ?) | HW-1 | HW-2 | | |

Products to be Harvested*

| Species | Mbf/Cds | | Mbf/Cds |
|--------------|---------|----------------|------------|
| White Pine | | Red Maple | |
| Red Pine | | Sugar Maple | |
| Pitch Pine | | Red Oak | 7.8 |
| Hemlock | 38.7 | Black Oak | 1.5 |
| Spruce | | White Oak | 0.8 |
| Other Sftwd. | | Other Hdwd. | 0.6 |
| White Ash | | Total Mbf | 53.8 |
| Beech | | Cordwood (Cds) | 53 |
| White Birch | 0.00 | SW Pulp (Tons) | 54 |
| B & Y Birch | 4.4 | HW Pulp (Tons) | I American |
| Black Cherry | | Chins (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.

LOT 3139

| Indicate location on map | ST-1 | ST-2 | ST-3 | ST-4 |
|--------------------------|-------|-------|------|------|
| Forest Type | HH | OM | 1000 | |
| Acres | 16.0 | 6.6 | | 4 |
| Landowner Objective | LT | LT | | |
| Designation of Trees | CT | CT | | |
| Type of Cut | SE* | SE* | | |
| Source of Regeneration | AD/SE | AD/SE | | |

* Small group and single tree selection, with groups up to 1/2 acre.

Landowner Signature

ract Droduct

andowner

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 prod | lucing |
| short-term income with minimal consideration | given t |
| immensions the future forest and little and taken | - |

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 specie

> 9-25-15 Date

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)

| Determin | ation and Status | | Final Report and Comment | s |
|--|--|---|--|--|
| Cutting Plan | Approved Disapproved | Expires 8/28/2017 | I hereby certify that the afore described Fore and all relevant statutes have been substantia | |
| Signature of Se | ///\ rvice Forester/Director's Age | nt <u>9/18/2015</u> Date | Signature of Service Forester/Director's Age | ent Dat |
| Extension | 1 2 | Expires Ser. For. Ints. | | 2 - UIA |
| Amendment ((| App Dis 1 App 2 | Dis 2 <u>K</u> , | | |
| Forest Types WP White Pine WK WP/Hem WH WP/Hdwd | HK Hemlock OM Miz HH Hem/Hdwd RM Rec BC Blck Cherry BE Bee | d Maple LT Leave Tree | Type of Cut SH Shelterwood Intermediate Harvests: ST Seed Tree CT Commercial Thin | Source of Regeneration AD Advanced SE Natural Seed |
| WO WP/Oak RP Red Pine SR Red Spruce | BB Bee/Bir/Map SF Spr OH Oak/Hdwd SM Sug | ech SB Stand Boundary ruce/Fir OT Other gar Maple <u>Landowner Objective</u> ch Pine LT Long-term Mgt. ST Short-term Har. | CC Clear Cut NT Non Com Thin SE Selection Non-Standard Systems:* SA Salvage HG Highgrade* SN Sanitation DL Diameter Limit* OT Other* | 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

| Narrat | ive Page (Effe | ective Date: 1/1/04) | Town | Now Color | | |
|-------------|---|--|---|----------------------------|--|--|
| Use this | page to provide | further explanation or if | | New Salem | | |
| Other (C |) was used in a | any category on pages 3 or 4. | File Number | File Number | | |
| | | | | and the state of the | | |
| Use this Se | ection to provide further of | explanation or if Other (OT) was used in any | category in the Best Management I | Practices Section on Pa | | |
| FLAGGIN | NG: Pink "Do Not Cut" | ' = trees to be protected | | | | |
| | Blue = 200 foot ver | nal pool buffer - ruts to be graded to <6" dail | y during growing season (no skid r | oads within 100 feet of | | |
| | Orange = edge of g | roup | | | | |
| BLUE PAI | NT: Dot = cordwood / p | ulp; horizontal line = sawlog; diagonal line = | low value sawlog; vertical line = 7 | $\Gamma SI; "X" = cull$ | | |
| Edge of har | rvest marked with three b | blue dots of paint and/or pink "Timber Harves | st Boundary" flagging. | | | |
| | | | | | | |
| Use | e this Section to describe | the types of trees to be harvested and/or retai in the Stand Treatment Section | ned if Other (OT) was used for "D n on page 4. | esignation of Trees" | | |
| Stand No. | . Species to be Cu | t Size of Trees to be Cut | Quality of Trees to be Cut | % BA/Acre Remo | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | 7 | • | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | Use this Section to d | escribe how Chapter 132 requirements will be | e met if a non standard system (HG | i, DL, or OT) | | |
| Stand No. | W | as used for the "Type of Cut" in the Cutting S | Standards Section on page 4. | i, DL, or OT) | | |
| Stand No. | w Source of Regeneration | as used for the "Type of Cut" in the Cutting 5 How will Regeneration be obtained If using AD - Describe the species pri | Standards Section on page 4. / protected? esent and how the regeneration wil | l be protected | | |
| Stand No. | w Source of | as used for the "Type of Cut" in the Cutting S How will Regeneration be obtained | Standards Section on page 4. / protected? esent and how the regeneration wil | l be protected | | |
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| Stand No. | w Source of Regeneration | as used for the "Type of Cut" in the Cutting 5 How will Regeneration be obtained If using AD - Describe the species pr | Standards Section on page 4. / protected? esent and how the regeneration wil | l be protected | | |
| | w Source of Regeneration | as used for the "Type of Cut" in the Cutting S How will Regeneration be obtained If using AD - Describe the species pr If using SE - Describe the source of t | Standards Section on page 4. / protected? esent and how the regeneration wil | l be protected | | |
| Stand No. | w Source of Regeneration (ex. AD, SE) | as used for the "Type of Cut" in the Cutting S How will Regeneration be obtained If using AD - Describe the species pr If using SE - Describe the source of t Describe the source of t | Standards Section on page 4. /protected? esent and how the regeneration wil he seed and the number of seed tre | Il be protected es/acre | | |
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Commonwealth of Massachusetts



Jack Buckley, Director

Fletcher Clark Department of Conservation and Recreation 40 Cold Storage Drive P.O. Box 484 Amherst, MA 01004

| Cutting Plan No. | 204-7780-16 |
|--------------------|--------------------|
| NHESP Tracking No. | 15-34795 |
| Town | New Salem |
| Road | South Main Street |
| Landowner | DCR-DWSP |
| Preparer | Helen Johnson |
| Date | September 18, 2015 |

Dear Fletcher,

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 (hereinafter "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 the NHESP 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 Brent Powers at (508) 389-6354.

Sincerely,

Thomas W. French, Ph.D. Assistant Director

Cc:

New Salem Conservation Commission (via e-mail)



www.mass.gov

Natural Heritage & Endangered Species Program North Drive, Route 135, Westborough, MA 01581 Tel: (508) 389-6360 Fax: (508) 389-7891



Figure 2. Photo Series 1: Opening on the east side of the access road.

A. Before harvest, December 2015. Note snag (dead tree) to be retained on right side of photo.



Close-ups of snag at the right side of the above photo, with frass mound at the base.



B. Immediately after harvest, June 2016.



C. One Year Later, August 2017.



Figure 3. Photo Series 2: Opening on the west side of the access road.

A. **Before harvest, December 2015.** Orange flagging marks trees to be retained at edge of opening. Note lack of seedlings, saplings, or any other plant growth on the forest floor.



B. **Immediately after harvest, June 2016.** The large log near the center will provide wildlife habitat as it decays.



C. One Year Later, August 2017



- Figure 4. Photo Series 3: Opening south of the fire line, near the north edge of the lot.
 - A. Before harvest, December 2015.



B. **Immediately after harvest, June 2016.** The red oak in the opening was retained for seed and age class diversity.



C. One Year Later, August 2017

