

Commonwealth of Massachusetts
Department of Conservation and Recreation
Division of Water Supply Protection

FY '16 Forestry Project Proposals

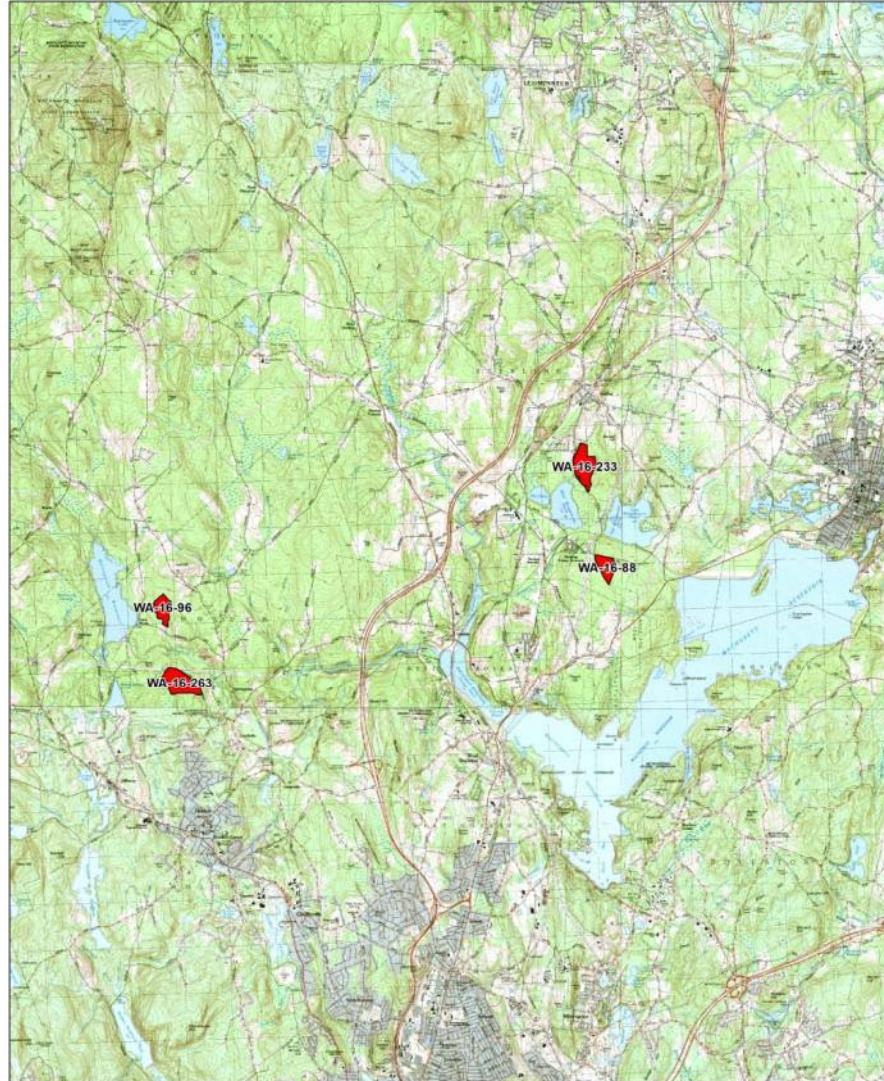


DCR Wachusett Reservoir

Proposed Timber Sales FY 2016



Locus Map (Scale 1:72,000 - 1 inch=6,000 feet)

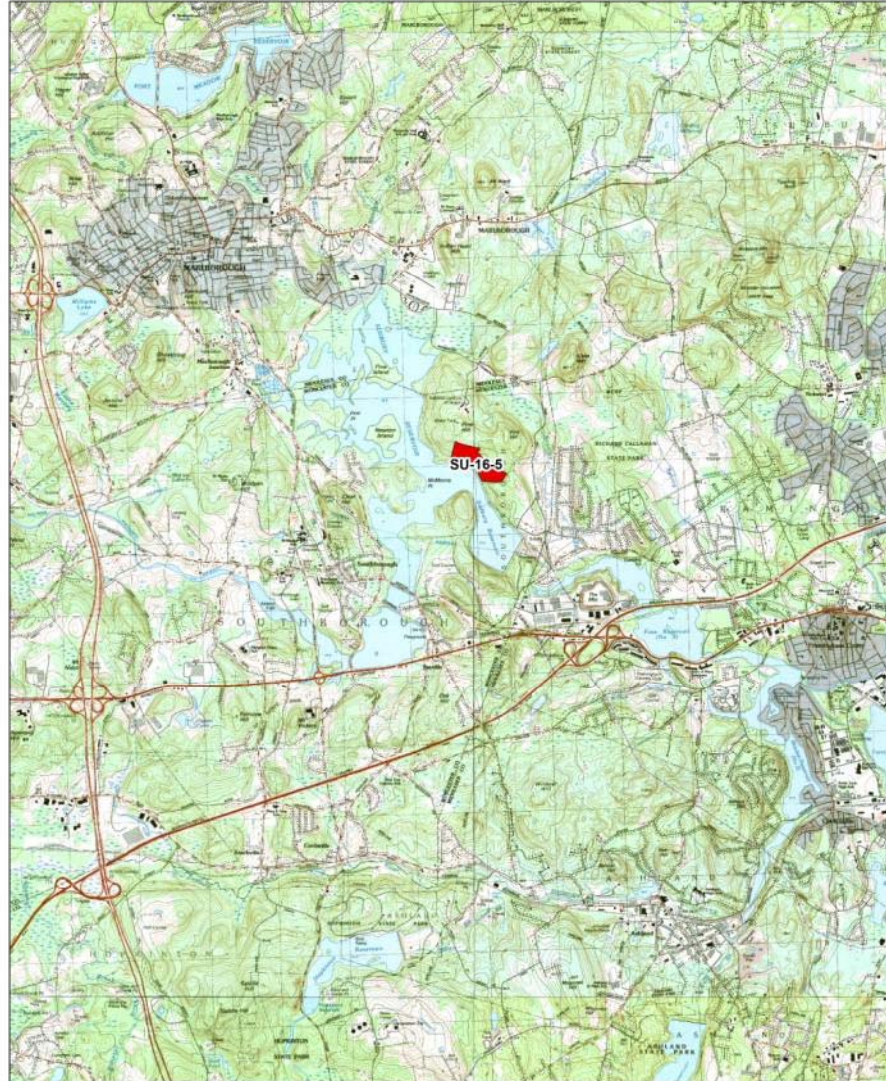


DCR Sudbury Reservoir

Proposed Timber Sales FY 2016



Locus Map (Scale 1:48,000 - 1 inch=4,000 feet)



DWSP Internal Review of Proposed Forest Management Operations

✓ Each year, all watershed forest management operations go through an internal review process designed to tap into more expertise than is available to the forester alone.

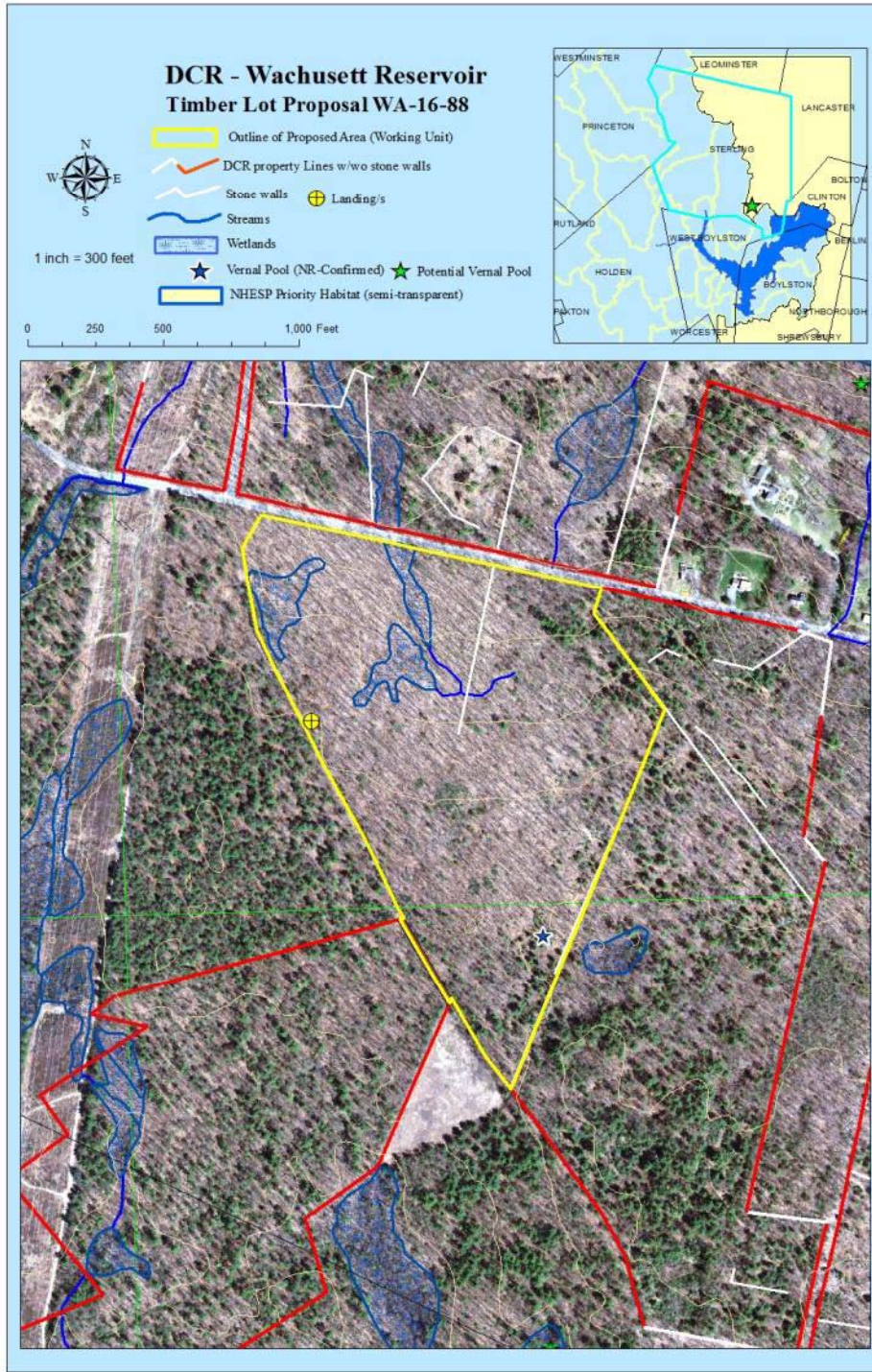
The lots are reviewed by...

- ✓ Regional Directors
 - ✓ Wildlife biologists
 - ✓ Natural Resource staff
 - ✓ Environmental Quality staff
 - ✓ Civil Engineering
 - ✓ DCR Archaeologist
- ✓ Comments\recommendations\restrictions are submitted to the foresters and incorporated into the management of each operation.

Campground Road Proposal

- ✓ Located in Sterling – on the south side of Campground Road
- ✓ 38 acres total
- ✓ This area was chosen for management due primarily to lack of diversity in age structure both within this specific area and within this subwatershed. 92% of the forest in this area is 100 years old.
- ✓ This area was first managed in 1989 with the goal of establishing regeneration. Another cut took place in 2004 only in the far eastern and southern end. This operation released young trees on 2.6 acres.
- ✓ There is adequate advance regeneration comprised of red oak, red maple and white pine along with black birch, white oak, hickory, sassafras and sugar maple.
- ✓ This operation will focus on releasing up to 10 acres of the advance regeneration by removing patches of the overstory in various sized groups.
- ✓ Partial cutting will occur in about 13 acres focused on removing the least vigorous and poorly formed trees while encouraging the healthy, long-lived trees of a diversity of species.

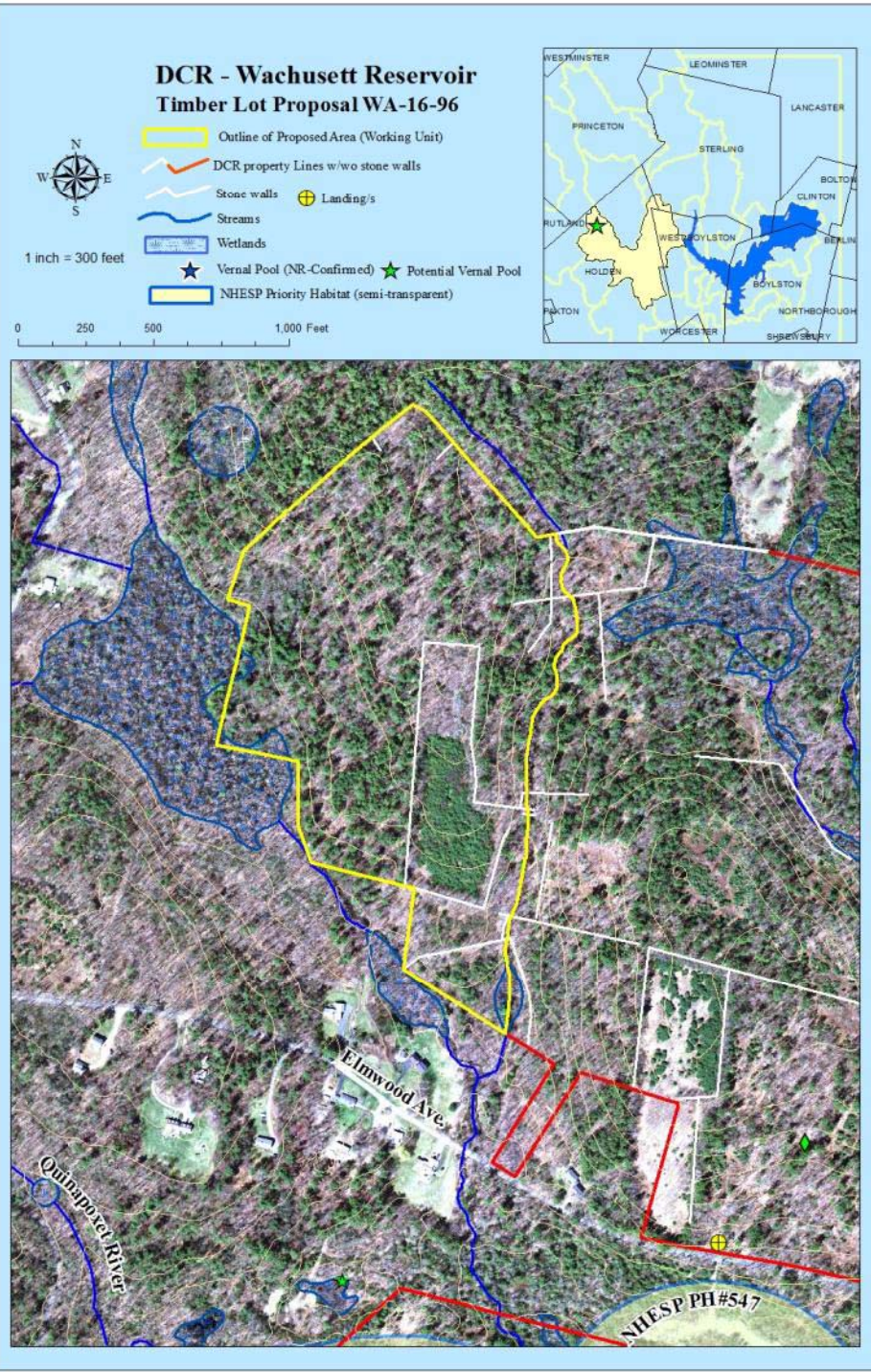
Campground Road Proposal



Elmwood Ave. Proposal

- ✓ Located in Holden – on the north side of Elmwood Ave.
- ✓ 40 acres total (acquired by the state in 1989)
- ✓ This area was chosen for management due primarily to lack of young stands of trees both within this specific area and within this subwatershed. While there is a diversity in age classes, the youngest stands are 25 years old and 35% of the area has stands that are more than 100 years old with the oldest being about 130 years of age.
- ✓ A harvest in the 1980's prior to state acquisition resulted in good advance regeneration throughout much of the area. Unfortunately it also resulted in many trees having unhealed wounds at the base caused by careless skidding.
- ✓ This operation will focus on releasing up to 13.5 acres of the advance regeneration by removing patches of the overstory in various sized groups.
- ✓ Partial cutting will occur in about 20 acres focused on removing the least vigorous and poorly formed trees and those with unhealed basal wounds while encouraging the healthy, long-lived trees of a diversity of species.

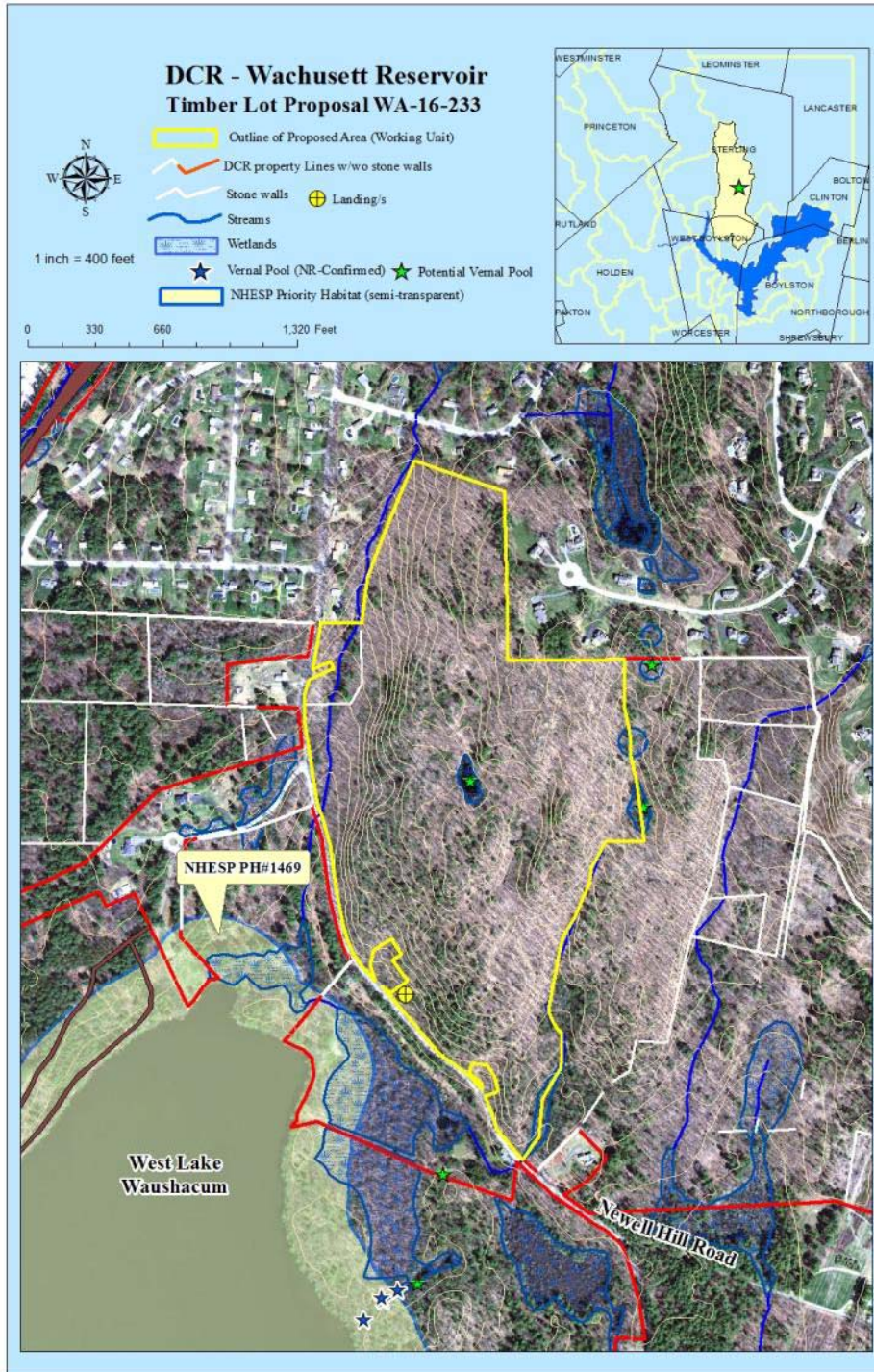
Elmwood Ave. Proposal



Newell Hill Road Proposal

- ✓ Located in Sterling – on the east side of Newell Hill Road.
- ✓ 68 acres total
- ✓ This area was chosen for management due primarily to lack of diversity in age structure both within this specific area and within this subwatershed. Just 6% of the forest is less than 20 years old, most of this due to a severe fire in 1999 which burned 20 acres and killed the mature oaks on 3.5 acres. The remaining 94% is 105 years old.
- ✓ There is very good regeneration that is more diverse in species than the red oak-dominated overstory. Red oak, white pine, white oak, red maple, black birch, hemlock, hickory, sugar maple, beech, sassafras and hophornbeam are all present.
- ✓ This operation will focus on releasing up to 18 acres of the advance regeneration by removing patches of the overstory in various sized groups.
- ✓ Partial cutting will occur in about 34 acres focused on removing the least vigorous and poorly formed trees while encouraging the healthy, long-lived trees of a diversity of species.

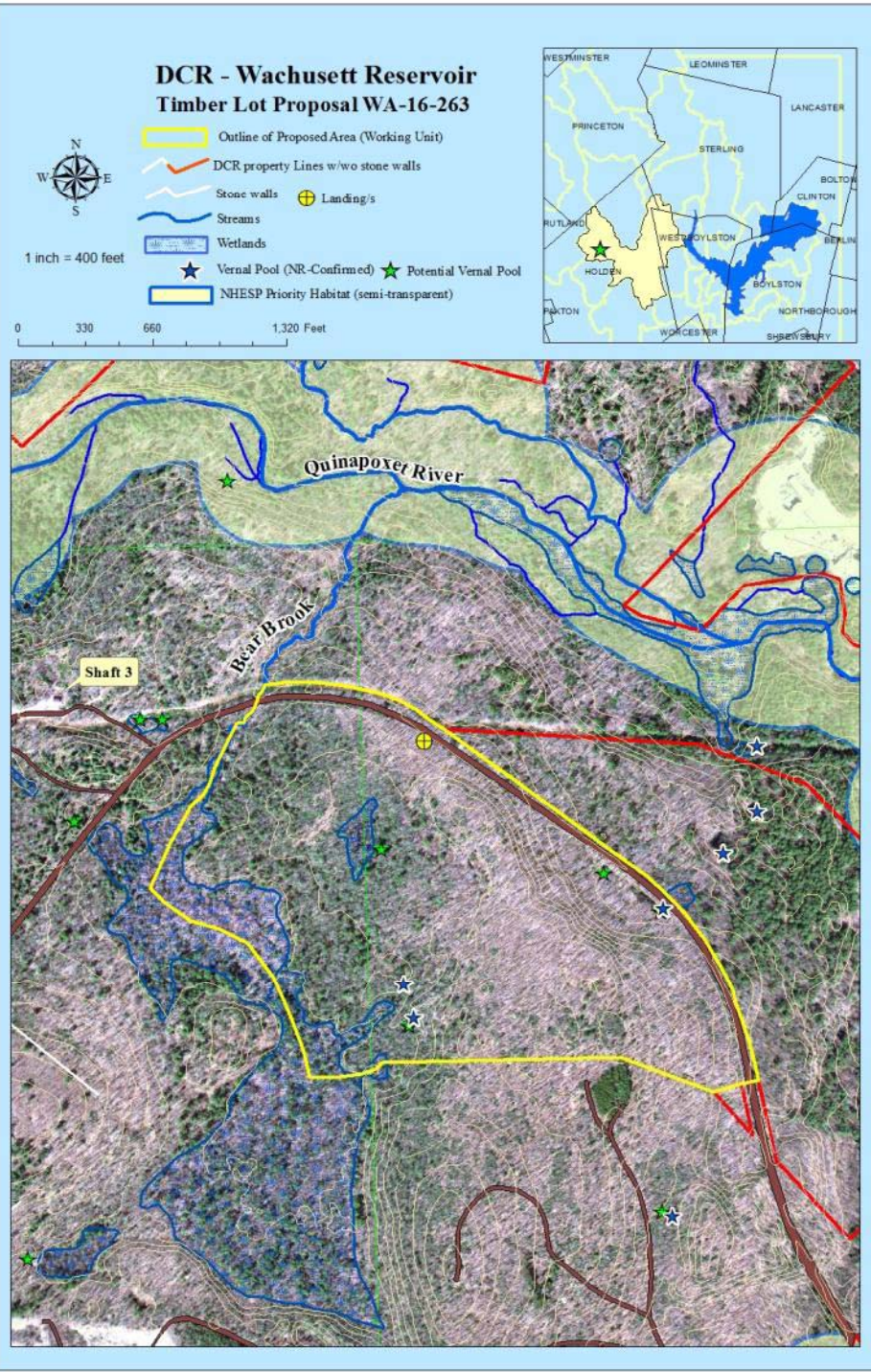
Newell Hill Road Proposal



Shaft 3 Proposal

- ✓ Located in Holden –to the east of Shaft 3 and bordered on the west by Bear Brook and on the north by the old railroad bed.
- ✓ 72 acres total
- ✓ This area was chosen for management due primarily to lack of diversity in age structure both within this specific area and within this subwatershed. None of this forest is less than 60 years old and 70% is more than 100 years old with nearly 2 acres dating to about 1870.
- ✓ Black oak, red oak and white oak dominate the overstory throughout this area. There is good diverse regeneration in the eastern half of this area while the western half is dominated by large dense patches of mountain laurel.
- ✓ This operation will focus on releasing up to 24 acres of the advance regeneration by removing patches of the overstory in various sized groups. These will disproportionately occur in the eastern half although some will be placed in the western half where the advance regeneration is even minimally present.
- ✓ Partial cutting will occur almost exclusively in the eastern half in about 16 acres focused on removing the least vigorous and poorly formed trees while encouraging the healthy, long-lived trees of a diversity of species. Thinning in the presence of mountain laurel only results in favoring its growth at the expense of other shrubs and trees.

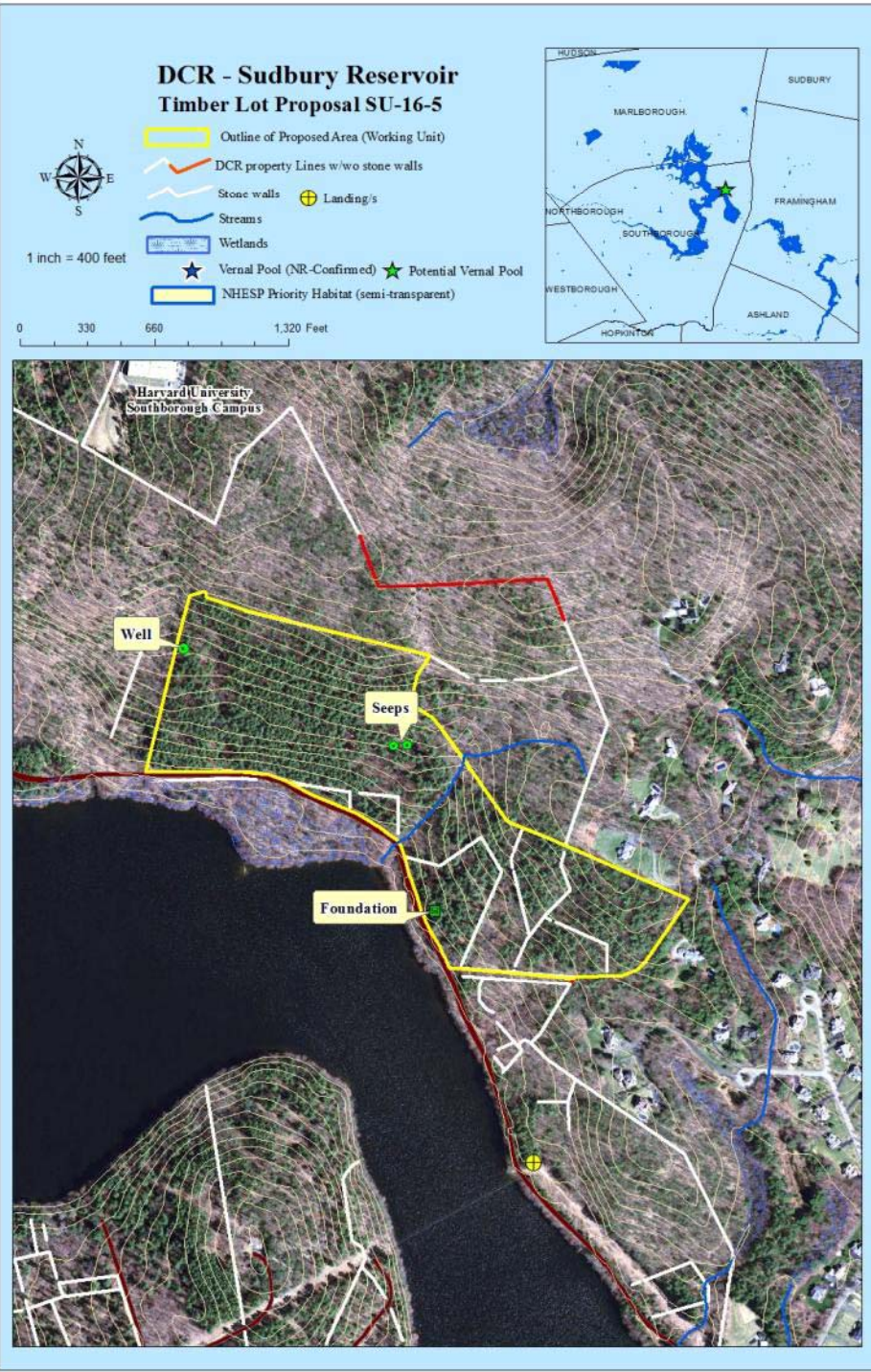
Shaft 3 Proposal



Sudbury Reservoir Proposal

- ✓ Located in Southborough– on the east side of the reservoir on the southern flank of Pine Hill.
- ✓ 45 acres total
- ✓ This area was chosen for management due primarily to lack of diversity in age structure both within this specific area and within this subwatershed. This area was planted to white pine from 1913-1917. There are presently no young stands of trees.
- ✓ There is good advance regeneration. While the overstory is dominated by white pine, the regeneration is extremely diverse with red maple, white pine, sugar maple, sassafras, hickory, red oak, white oak and black cherry all present.
- ✓ This operation will focus on releasing up to 15 acres of the advance regeneration by removing patches of the overstory in various sized groups.
- ✓ Partial cutting will occur in about 20 acres focused on removing the least vigorous and poorly formed trees while encouraging the healthy, long-lived trees of a diversity of species.

Sudbury Reservoir Proposal



- ✓ Written public comments are due by July 20 in order for the Division to address the public issues and incorporate suggestions and concerns into the silvicultural prescriptions.
- ✓ Public tours will be offered for any of the proposed timber sales. If interested, please notify DCR Forest Greg Buzzell at 508-792-7806 ext. 317. Tours are available until July 2nd.
- ✓ For more information: <http://www.mass.gov/eea/agencies/dcr/water-res-protection/watershed-mgmt/watershed-forestry.html>
- ✓ Questions/Comments?