

# Resource Area Restoration Plan

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June 14, 2020

Subject Property:

30 Edgemere Road  
Parcel ID: 0042 0000 0477  
Lynnfield, Massachusetts

Property Owner:

Steve Sampson  
30 Edgemere Road  
Lynnfield, MA 01940

Prepared by:

LEC Environmental Consultants, Inc.  
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## Introduction

On behalf of Steve Sampson, LEC Environmental Consultants, Inc., (LEC) has prepared this *Resource Area Restoration Plan (Restoration Plan)* and attached *Wetland Sketch Plan to Accompany a Request for Determination of Applicability* dated July 14, 2020 (*Sketch Plan, Attachment A*) for the property located at 30 Edgemere Road in Lynnfield, Massachusetts (the site). This *Restoration Plan* and *Sketch Plan* have been prepared in support of a *Request for Determination of Applicability (RDA)* prepared by Steve Sampson for the installation of a seasonal dock and related work, and provide more specific details on dock access, vegetation removal, and restoration.

## Existing Conditions

LEC conducted a site evaluation on June 25, 2020 to inspect the site, discuss proposed work with Mr. Sampson, and delineate pertinent portions of the Bank and Bordering Vegetated Wetland (BVW) associated with Pilings Pond. The property contains a single-family dwelling with attached garage, paved driveway, and in-ground swimming pool and patio within the eastern portion of the site. The balance of the property contains lawn and landscape plantings. Several large stone steps occur within the town-owned land and provide access toward the Pond. The property abuts town-owned land to the west containing the frontage along Pilings Pond. LEC delineated the Pond Bank with safety blue surveyor’s tape numbered B-1 and B-2, and delineated the adjacent BVW boundary with blaze orange surveyor’s tape numbered 1 through 3. The Bank occurs along an obvious break in topography, while the BVW boundary occurs along a more subtle topographic transition. Within the BVW, LEC observed sapling willow (*Salix* sp.), speckled alder (*Alnus rugosa*), and entanglements of oriental bittersweet (*Celastrus orbiculatus*). LEC observed sandy wetland soils with redoximorphic concentrations within six inches of the soil surface. The adjacent upland contains a canopy of Norway maple (*Acer platanoides*), with a groundcover of grasses and Virginia creeper (*Parthenocissus quinquefolia*). Historic fill material was observed within the adjacent upland.

## Proposed Work

As described in the RDA, Mr. Sampson intends to install a seasonal floating dock on Pilings Pond, measuring roughly 6 feet by 18 feet, and extending westerly from the Bank boundary (see attached *Sketch Plan* and Photo 1, **Attachment A**). The dock will alter (cover) roughly six linear feet of Bank. In order to provide safe and adequate access to the dock from the existing stone steps, a pea stone walkway is proposed between the existing stone steps and the proposed dock. The proposed pea stone walkway will alter 30± square feet of BVW, and require removal of a double-trunk Norway maple. In addition, Mr. Sampson proposes to remove a limb from a white oak (*Quercus alba*) tree located east of the stone steps (see Photo 3, **Attachment A**).



## Wetland Restoration

In order to mitigate for the proposed 30± square feet of wetland alteration associated with the pea stone path, Mr. Sampson proposes to create 40± square feet of wetland adjacent to the existing BVW boundary, south of the proposed alteration (see *Sketch Plan* and Photo 2, **Attachment A**). In order to create the wetland, Mr. Sampson will need to implement the following steps:

- 1) Identify and stake in the field the 40-foot Wetland Replication Area;
- 2) Remove topsoil and stockpile. Amend topsoil with leaf compost at a 1:1 ratio;
- 3) Following topsoil removed, excavate the subsoil by roughly 12 inches – roughly one foot below the elevation of the adjacent wetland;
- 4) Replace 12 inches of topsoil and install four (4) highbush blueberry shrubs;
- 5) Seed the Wetland Replication Area *FACW Meadow Mix* available from Ernst Conservation Seeds per the manufacturer's specifications, and apply a light mulch of straw to stabilize the soil and promote seed germination.
- 6) All Wetland Restoration work shall occur within the spring or fall planting season immediately following installation of the dock and pea stone access.

## Vine Removal and Tree Replacement

In order to mitigate for the removal of the Norway maple tree, Mr. Sampson will remove the invasive climbing vines on the adjacent trees flanking the proposed dock, and plant three (3) sapling red maple trees within a woodland opening located east of the Pond (see *Sketch Plan*, **Attachment A**). The sapling red maple trees will measure 4-6 feet high at the time of planting, with a caliper of 1-1.5 inches.

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*Wetland Sketch Plan to Accompany a Request for Determination of Applicability, Dated July 14, 2020*

Photo 1: Proposed Seasonal Dock and Pea Stone Path

Photo 2: Wetland Replication Area

Photo 3: White Oak Tree to be Trimmed



**Wetland Sketch Plan to Accompany a Request for Determination of Applicability**

30 Edgemere Road, Lynnfield, MA | dated July 14, 2020

Prepared by LEC Environmental Consultants, Inc., based on June 25, 2020 field work performed by Senior Wetland Scientist Rich Kirby

Blue Line: Blue Bank flags B-1 and B-2; Orange Line: Orange Wetland Flags 1 through 3; Gray Rectangle: Proposed 6' x 18' seasonal dock; Yellow Polygon: Proposed pea gravel dock access resulting in 30± square feet of Wetland alteration; Gray Polygons: Existing stone steps; Green Polygon: 40± square feet of wetland replication; Red Circle: Norway Maple tree to be removed; Pink Circle: White Oak Tree to be trimmed; Green Circles: Red Maple saplings to be planted.



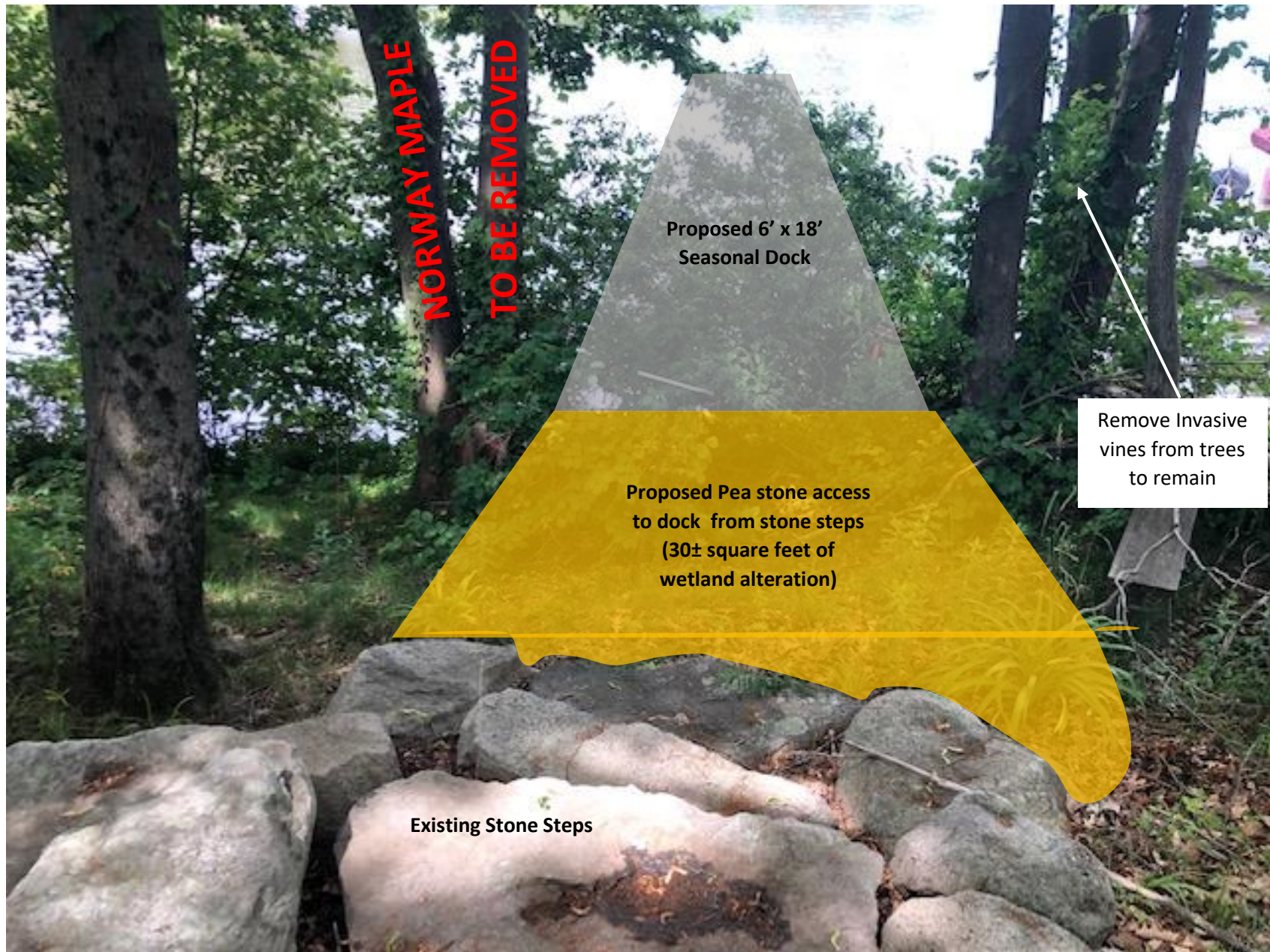


Photo 1: Westerly view of proposed seasonal dock and pea stone path extending from existing stone steps. Remove Norway maple tree and remove invasive vines from trees to remain.



**Photo 2:** Wetland Replication Area depicted in green. Wetland Replication Sequence includes remove topsoil and stockpile. Mix topsoil 1:1 with leaf compost. Excavate subsoil by roughly one (1) foot to intercept wetland hydrology and dispose of off-site. Replace roughly 1 foot of mixed topsoil to meet elevation of existing wetland. Install four (4) highbush blueberry (*Vaccinium corymbosum*) and seed with the *FACW Meadow Mix* available from Ernst Conservation Seeds, Inc. Apply straw much to stabilize soil and retain soil moisture to promote seed germination.



Photo 3: White oak (*Quercus alba*) tree to be trimmed by removing limb, as pictured.