

Wetland Delineation Methodology

104 (Pcl 1-63) & 126 (Pcl 1-17) Naushon Rd. West Tisbury, MA
June 27, 2023

The wetland resources on the subject parcels were re-flagged on June 7, 2023 at the request of Vineyard Land Surveying & Engineering. The wetland delineation utilized a three-parameter approach, which included an analysis of vegetation, soils and hydrology. The homesite resides at EL ±55 ft. MSL and slopes to the north to a tennis court, and to the northeast to a small freshwater pond. There is an abrupt transition from the upland to a small, forested wetland area on the adjacent parcel (1-16). This wetland consists of a canopy layer comprising red maple (*Acer rubrum*), black gum tupelo (*Nyssa sylvatica*) and red oak (*Quercus rubra*). The shrub layer consists mainly of sweet pepperbush (*Clethra alnifolia*) and arrowwood viburnum (*Viburnum dentatum*). Herbaceous layer contains cinnamon fern (*Osmunda cinnamomea*), Jack-in-the-Pulpit (*Arisaema triphyllum*), *Iris sp.*, great bladder sedge (*Carex intumescens*), and soft rush (*Juncus effusus*). A small intermittent watercourse connects this wetland with a larger wetland area to the north along the perimeter of the pond, which is comparable in structure and composition.

The boundaries between wetlands and uplands are distinct with clear changes in both vegetation and soil profile characteristics. The soils within the wetlands are the very poorly drained Berryland and Freetown series. The upland soils are of the East Chop series. The boundary between the wetlands and the uplands is reflective of the level of soil saturation and resulting vegetative composition.

The wetlands on these properties are an expression of perched groundwater in lower lying locations where less permeable glacial moraine deposits restrict exfiltration of rainfall. These areas become saturated for prolonged periods during the growing season giving rise to hydric soils and plant communities adapted to this saturation. Obvious signs of this hydrology are expressed in the stream channel itself, ponded water, water-stained leaves, and debris lines.

A small, isolated wet pocket between the homesite and the tennis court came to light only after inadvertent brush cutting occurred. This depression contains hydric soils and had been previously overgrown with extremely dense brush and thorny vines. This area was flagged during our most recent site visit and appears to have no direct hydrologic connection to the other wetland resources on the properties. This pocket has been rutted by equipment, but can be restored by careful grading, and replanting with appropriate species, including fruiting shrubs and pollinator flowers, to serve as an attractive site amenity for wildlife.

126 Naushon Ave



DEP Wetlands Detailed With Outlines

- Barrier Beach System
- Barrier Beach-Deep Marsh
- Barrier Beach-Wooded Swamp Mixed Trees
- Barrier Beach-Coastal Beach
- Barrier Beach-Coastal Dune
- Barrier Beach-Marsh
- Barrier Beach-Salt Marsh
- Barrier Beach-Shrub Swamp
- Barrier Beach-Wooded Swamp Coniferous
- Barrier Beach-Wooded Swamp Deciduous
- Bog
- Coastal Bank Bluff or Sea Cliff
- Coastal Beach
- Coastal Dune
- Cranberry Bog
- Deep Marsh
- Barrier Beach-Open Water
- Open Water
- Rocky Intertidal Shore
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Tidal Flat
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

DEP Wetlands Hydrologic Connections

Property Tax Parcels

Site Photographs
Naushon Rd. West Tisbury
June 24, 2023



Forested wetland – Pcl. 1-16



Transition Zone Pcl. 1-16

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Disturbed isolated wet pocket



Wetland boundary with erosion control barrier

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Wetland area perimeter of freshwater pond