Wetland Delineation Field Data Form

Prepared by: Ryan Silva Project location: 64 Old Lamberts Cove Rd West Tisbury Date: 1/21/23

Delineation Notes: Apparent perennial stream (flags 1-4), standing water flags 5-8.

Section 1: Vegetation Notes: Predominant wetland indicator species include black gum, red maple (wooded swamp), and winterberry.

Section 2: Indicators of Hydrology

1. Soil Survey:
   - Is there a published soil survey? Yes
   - Source of soil survey: NRCS websoil survey
   - Soil type mapped: 54A—Freetown and Swansea mucks, coastal lowland, 0 to 1 percent slopes. 285B—Eastchop loamy sand, 3 to 8 percent slopes, very stony.
   - Are field observations consistent with soil survey? Relatively few samples, but yes.
   - Soil survey notes: The survey is consistent with field observations.

2. Soil description: Representative soil profile

Horizon	Depth	Matrix Color	Mottles Color
A	0-3	7.5yr 3/2	
B	3-6	7.5 yr 2.5/1	

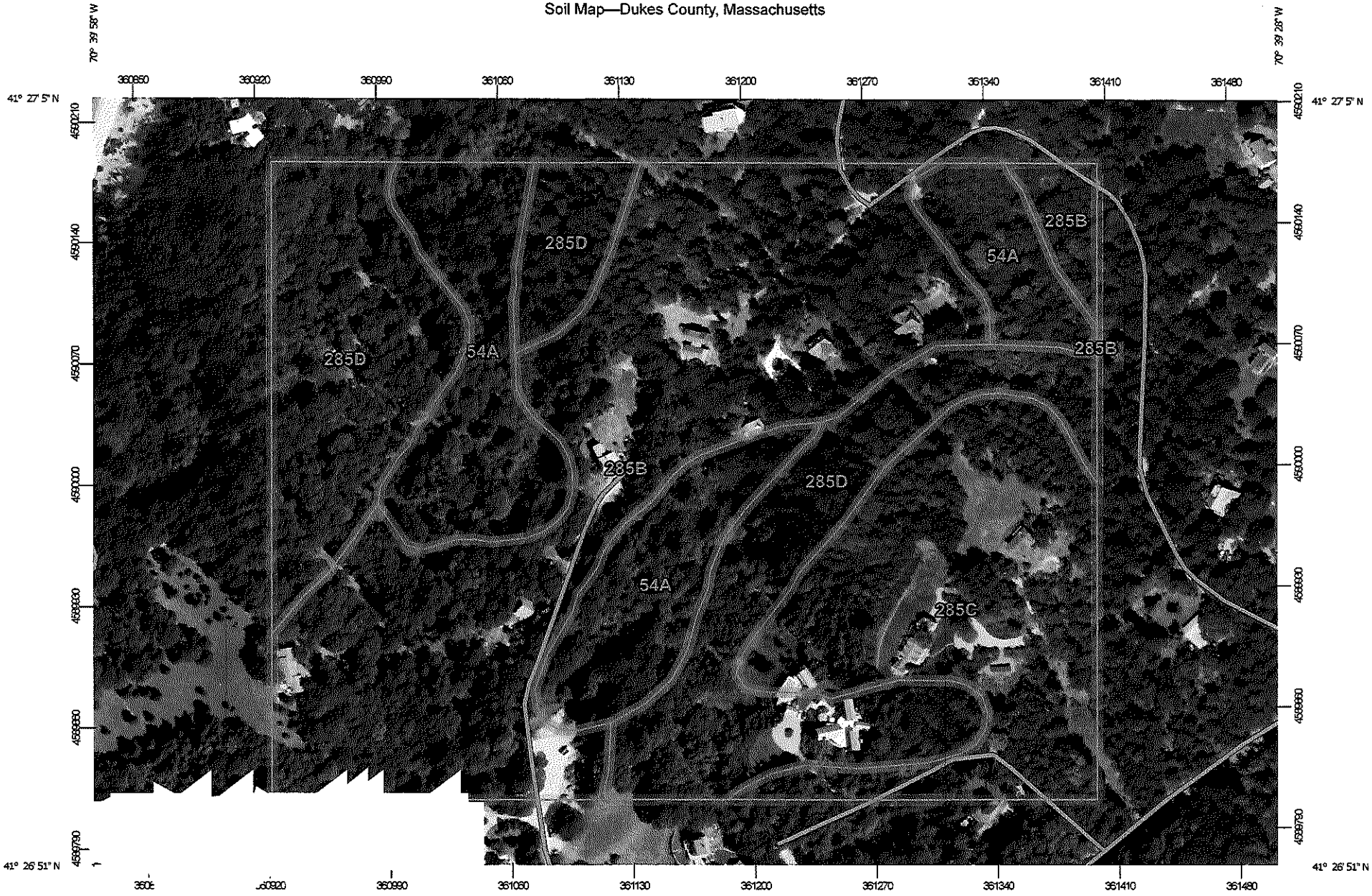
   Conclusion and Notes: Is the soil hydric? Yes, S7 Dark Surface

3. Other indicators of hydrology: Standing/flowing water, shallow roots.

Section 3: Vegetation and Hydrology Conclusion

	Yes	No
# of wetland indicator plants > non-wetland indicator plants	X	
Hydric soil present	X	
Other hydrology indicators present	X	
Sample location is in a BVW	X	

Soil Map—Dukes County, Massachusetts



Map Scale: 1:3,120 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 45 90 180 270

Feet: 0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

USDA **Natural Resources Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dukes County, Massachusetts
Survey Area Data: Version 19, Sep 9, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 5, 2020—Sep 7, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
54A	Freetown and Swansea mucks, coastal lowland, 0 to 1 percent slopes	7.9	18.1%
285B	Eastchop loamy sand, 3 to 8 percent slopes, very stony	15.6	35.9%
285C	Eastchop loamy sand, 8 to 15 percent slopes, very stony	8.0	18.3%
285D	Eastchop loamy sand, 15 to 35 percent slopes, very stony	12.1	27.7%
Totals for Area of Interest		**43.5**	**100.0%**

Dukes County, Massachusetts

54A—Freetown and Swansea mucks, coastal lowland, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2tyqd
Elevation: 0 to 250 feet
Mean annual precipitation: 40 to 52 inches
Mean annual air temperature: 48 to 55 degrees F
Frost-free period: 190 to 250 days
Farmland classification: Not prime farmland

Map Unit Composition

Freetown, coastal lowland, and similar soils: 50 percent
Swansea, coastal lowland, and similar soils: 40 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Freetown, Coastal Lowland

Setting

Landform: Bogs, marshes, swamps
Landform position (three-dimensional): Dip
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Highly decomposed organic material

Typical profile

Oe - 0 to 2 inches: mucky peat
Oa - 2 to 79 inches: muck

Properties and qualities

Slope: 0 to 1 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to 14.17 in/hr)
Depth to water table: About 0 to 6 inches
Frequency of flooding: Rare
Frequency of ponding: Frequent
Available water supply, 0 to 60 inches: Very high (about 19.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: B/D
Ecological site: F144AY043MA - Acidic Organic Wetlands

Hydric soil rating: Yes

Description of Swansea, Coastal Lowland

Setting

Landform: Swamps, bogs, marshes
Landform position (three-dimensional): Dip
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Highly decomposed organic material over loose sandy and gravelly glaciofluvial deposits

Typical profile

Oa - 0 to 36 inches: muck
Cg - 36 to 79 inches: coarse sand

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to 14.17 in/hr)
Depth to water table: About 0 to 6 inches
Frequency of flooding: Rare
Frequency of ponding: Frequent
Available water supply, 0 to 60 inches: Very high (about 17.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: B/D
Ecological site: F144AY043MA - Acidic Organic Wetlands
Hydric soil rating: Yes

Minor Components

Rainberry, coastal lowland

Percent of map unit: 10 percent
Landform: Kettles, depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Dukes County, Massachusetts
Survey Area Data: Version 19, Sep 9, 2022

Dukes County, Massachusetts

285B—Eastchop loamy sand, 3 to 8 percent slopes, very stony

Map Unit Setting

National map unit symbol: 98x2
Elevation: 0 to 1,000 feet
Mean annual precipitation: 41 to 48 inches
Mean annual air temperature: 50 to 54 degrees F
Frost-free period: 175 to 240 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Eastchop and similar soils: 75 percent
Minor components: 25 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Eastchop

Setting

Landform: Moraines
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loose sandy glaciofluvial deposits

Typical profile

H1 - 0 to 7 inches: loamy sand
H2 - 7 to 34 inches: loamy sand
H3 - 34 to 60 inches: sand

Properties and qualities

Slope: 3 to 8 percent
Surface area covered with cobbles, stones or boulders: 2.0 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: A
Ecological site: F149BY005MA - Dry Outwash

Hydric soil rating: No

Minor Components

Chilmark

Percent of map unit: 10 percent
Hydric soil rating: No

Nantucket

Percent of map unit: 10 percent
Hydric soil rating: No

Moshup

Percent of map unit: 5 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Dukes County, Massachusetts
Survey Area Data: Version 19, Sep 9, 2022