

# Chockers Lane, Chilmark

3.12.23



## Wetland Delineation Field Data Form

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Project location: Chockers Ln, Chilmark MA

Date: 3/12/23

**Delineation Notes:** 30 Flags.

Transition from wetland to upland relatively clear.

### **Section 1: Vegetation Notes**

- Transition zone dominated by arrowwood, grape, briar on the upland side of the delineation, pepperbush spanning upland and wetland, and winterberry and high tide bush dominant on the wetland side. There is an unidentified dominant shrub in the wetland incursion between flags 20-25 that I think is clammy azalea (Fac wet).

### **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:
  - i. 382C—Nantucket sandy loam
  - ii. 64A—Pawcatuck and Matunuck mucky peats,
- Are field observations consistent with soil survey? Yes
- Soil survey notes: Resolution of the survey does not capture all areas with hydric soils.

#### 2. Soil description: Representative soil profile

Horizon	Depth	Matrix Color	Mottles Color
O	0-1	10yr 2/2	
A	1-6	10yr 2/1	
B	6-10+	10yr 6/1	

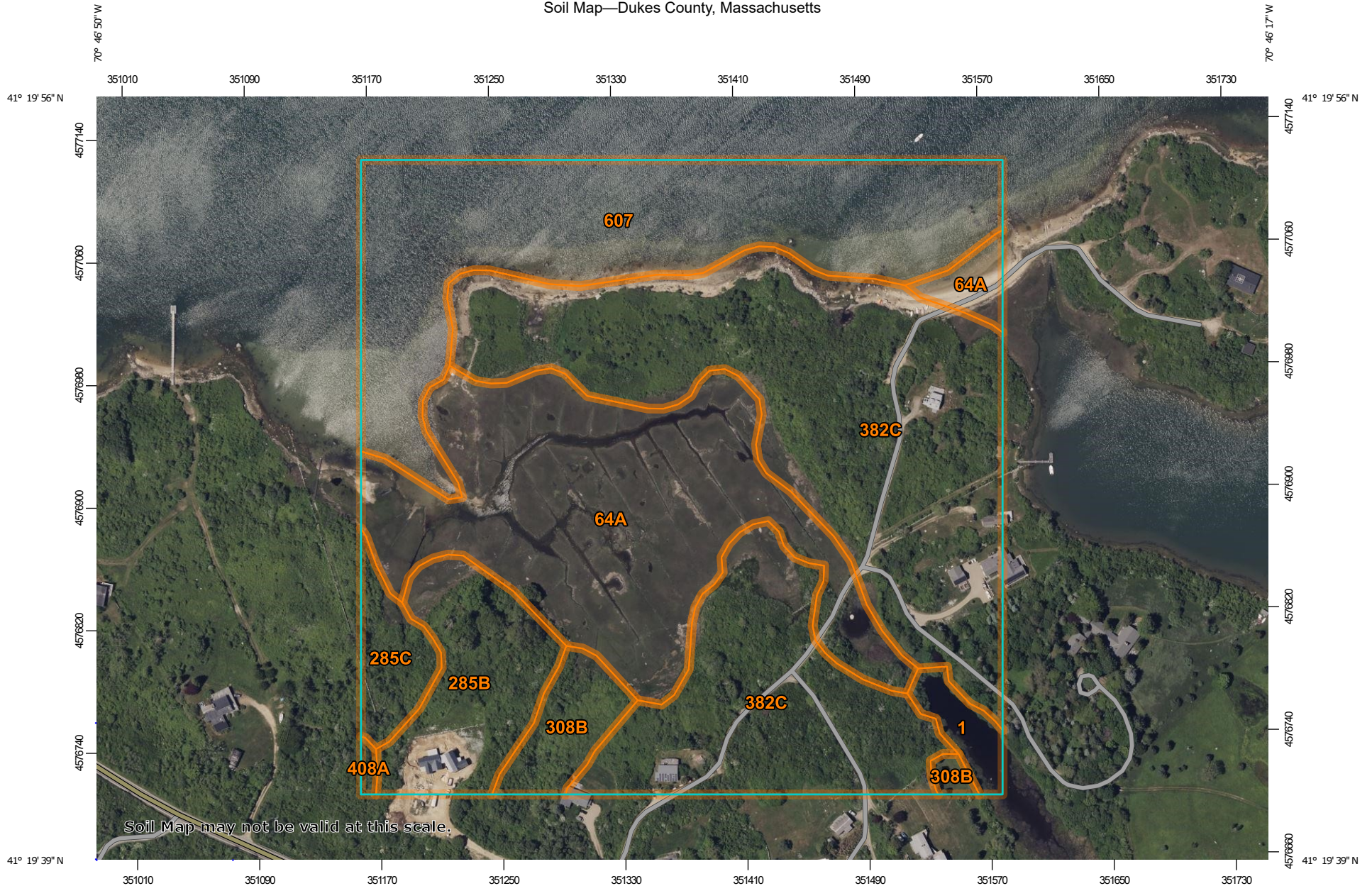
Conclusion and Notes: Is the soil hydric? Yes, S7 – dark surface

- #### 3. Other indicators of hydrology: southern delineation salt march, drift lines. Northern side beach and eroded shoreline. Wetland flags 20-25 standing water, depressions, exposed roots.

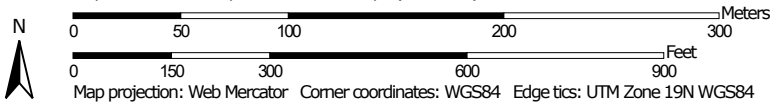
### **Section 3: Vegetation and Hydrology Conclusion**

	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: 1:3,510 if printed on A landscape (11" x 8.5") sheet.




## 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: Jun 10, 2022—Jun 30, 2022

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
1	Water	0.6	1.4%
64A	Pawcatuck and Matunuck mucky peats, 0 to 2 percent slopes, very frequently flooded	10.4	24.0%
285B	Eastchop loamy sand, 3 to 8 percent slopes, very stony	2.9	6.8%
285C	Eastchop loamy sand, 8 to 15 percent slopes, very stony	1.0	2.4%
308B	Moshup loam, 3 to 8 percent slopes	1.3	3.0%
382C	Nantucket sandy loam, 8 to 15 percent slopes, very stony	17.5	40.6%
408A	Pompton sandy loam, 0 to 3 percent slopes	0.1	0.2%
607	Water, saline	9.3	21.5%
<b>Totals for Area of Interest</b>		<b>43.2</b>	<b>100.0%</b>

## Dukes County, Massachusetts

### 382C—Nantucket sandy loam, 8 to 15 percent slopes, very stony

#### Map Unit Setting

*National map unit symbol:* 98xl

*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

*Nantucket and similar soils:* 74 percent

*Minor components:* 26 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Nantucket

##### Setting

*Landform:* Moraines

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Linear

*Across-slope shape:* Convex

*Parent material:* Friable coarse-loamy eolian deposits over dense loamy lodgment till

##### Typical profile

*H1 - 0 to 4 inches:* sandy loam

*H2 - 4 to 20 inches:* sandy loam

*H3 - 20 to 60 inches:* sandy loam

##### Properties and qualities

*Slope:* 8 to 15 percent

*Surface area covered with cobbles, stones or boulders:* 2.0 percent

*Depth to restrictive feature:* 18 to 22 inches to densic material

*Drainage class:* Well drained

*Runoff class:* Medium

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately low to moderately high (0.06 to 0.60 in/hr)

*Depth to water table:* About 18 to 30 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Available water supply, 0 to 60 inches:* Very low (about 2.6 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6s

*Hydrologic Soil Group:* B

*Ecological site:* F149BY009MA - Well Drained Dense Till Uplands  
*Hydric soil rating:* No

### **Minor Components**

#### **Plymouth**

*Percent of map unit:* 9 percent  
*Landform:* Moraines  
*Landform position (two-dimensional):* Shoulder  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Hydric soil rating:* No

#### **Chilmark**

*Percent of map unit:* 9 percent  
*Hydric soil rating:* No

#### **Eastchop**

*Percent of map unit:* 4 percent  
*Hydric soil rating:* No

#### **Moshup**

*Percent of map unit:* 4 percent  
*Hydric soil rating:* No

## **Data Source Information**

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

## Dukes County, Massachusetts

### 64A—Pawcatuck and Matunuck mucky peats, 0 to 2 percent slopes, very frequently flooded

#### Map Unit Setting

*National map unit symbol:* 2tyqp

*Elevation:* 0 to 10 feet

*Mean annual precipitation:* 36 to 71 inches

*Mean annual air temperature:* 39 to 59 degrees F

*Frost-free period:* 140 to 250 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Pawcatuck and similar soils:* 50 percent

*Matunuck and similar soils:* 35 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Pawcatuck

##### Setting

*Landform:* Tidal marshes

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Partially- decomposed herbaceous organic material over sandy mineral material

##### Typical profile

*Oe - 0 to 46 inches:* mucky peat

*Cg - 46 to 60 inches:* mucky sand

##### Properties and qualities

*Slope:* 0 to 2 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 very high (0.14 to 99.90 in/hr)

*Depth to water table:* About 0 inches

*Frequency of flooding:* Very frequent

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 5 percent

*Maximum salinity:* Nonsaline to strongly saline (1.0 to 112.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 20.0

*Available water supply, 0 to 60 inches:* Very high (about 21.4 inches)



### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 8w

*Hydrologic Soil Group:* A/D

*Ecological site:* R144AY001CT - Tidal Salt Low Marsh mesic very frequently flooded, R144AY002CT - Tidal Salt High Marsh mesic very frequently flooded

*Hydric soil rating:* Yes

### **Description of Matunuck**

#### **Setting**

*Landform:* Tidal marshes

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Partially- decomposed herbaceous organic material over glaciofluvial deposits and/or sandy marine deposits

#### **Typical profile**

*Oe - 0 to 12 inches:* mucky peat

*Cg - 12 to 72 inches:* sand

#### **Properties and qualities**

*Slope:* 0 to 2 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 very high (0.14 to 99.90 in/hr)

*Depth to water table:* About 0 inches

*Frequency of flooding:* Very frequent

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 5 percent

*Maximum salinity:* Nonsaline to strongly saline (1.0 to 112.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 20.0

*Available water supply, 0 to 60 inches:* Moderate (about 8.2 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 8w

*Hydrologic Soil Group:* A/D

*Ecological site:* R144AY001CT - Tidal Salt Low Marsh mesic very frequently flooded, R144AY002CT - Tidal Salt High Marsh mesic very frequently flooded

*Hydric soil rating:* Yes