### Impacts to Municipal Infrastructure with Sea Level Rise

Municipal Facilities lower than 6 feet NAVD88

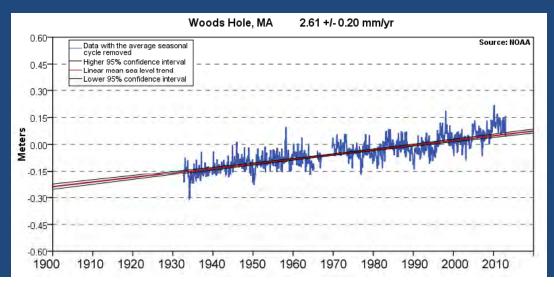


#### **Goals and Definitions**

Beginning in the summer of 2013, the Buzzards Bay NEP will conduct a study where we extrapolate the annual high tide level (AHTL) with increasing sea level. Elsewhere, the annual high tide has been nicknamed the King Tide.

For the past hundred years, and for some time earlier, sea level has risen about 10+ inches per century. With warming climates, this rate will increase. Like our study of the expansion of the 100-year floodplain, we will use LiDAR data to extrapolate 1-, 2-, and 4-ft increases in sea level and how it will affect the extent of the annual high tide. On the following pages we give a quick preliminary survey of Buzzards Bay showing the location of the 6 ft Lidar contour, which is close to a +3 ft increase in sea level and how it may affect

infrastructure.



### Westport River Road

AHTL = 3.0 feet NAVD88

8.0 feet NAVD88

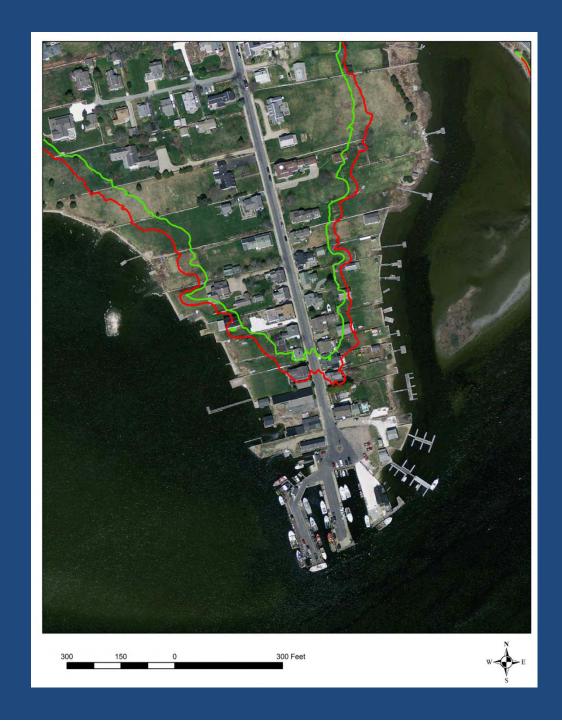


### Westport

### The Point Town Wharf

AHTL = 3.0 feet NAVD88

8.0 feet NAVD88



### Westport

### Head of Westport

AHTL = 2.7 feet NAVD88

8.0 feet NAVD88

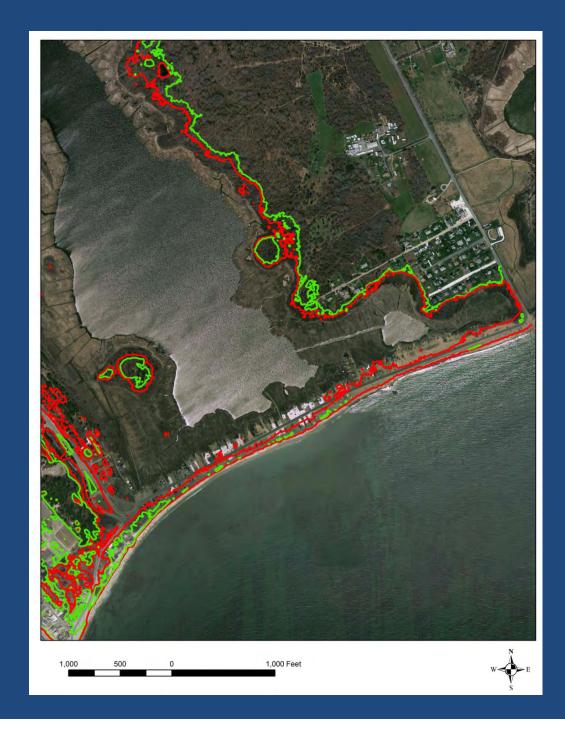


### Westport

### East Beach Road

AHTL = 3.1 feet NAVD88

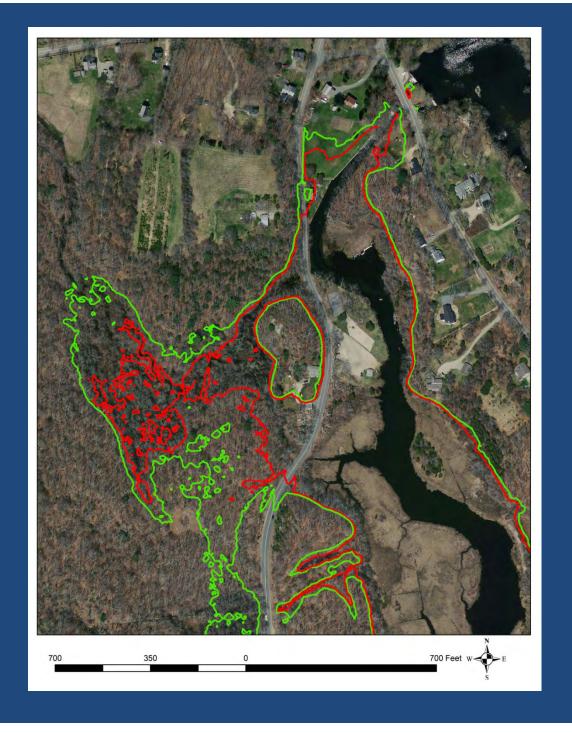
8.0 feet NAVD88



# Dartmouth Russell's Mill

AHTL = 3.1 feet NAVD88

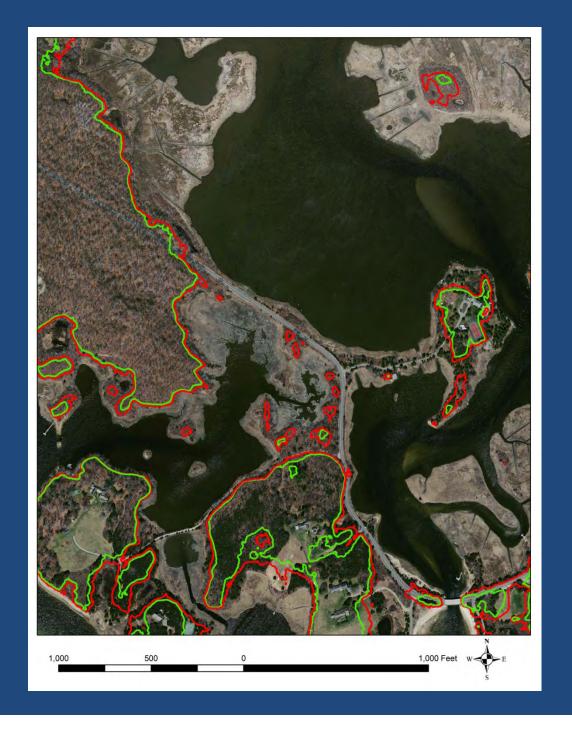
8.0 feet NAVD88



### Little River Road

AHTL = 3.1 feet NAVD88

8.0 feet NAVD88



### Round Hill Beach Road

AHTL = 3.1 feet NAVD88

8.0 feet NAVD88



# Gulf Hill & Smith Neck Roads

AHTL = 3.1 feet NAVD88

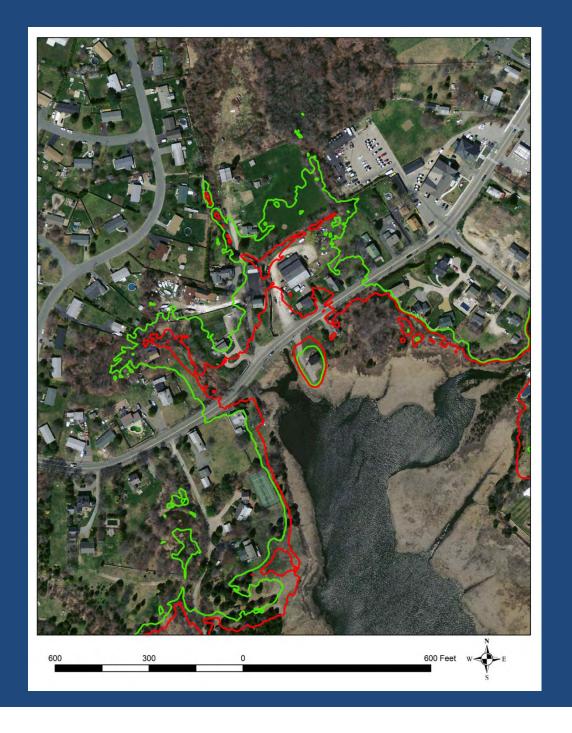
8.0 feet NAVD88



### Russell's Mill Road

AHTL = 3.1 feet NAVD88

8.0 feet NAVD88

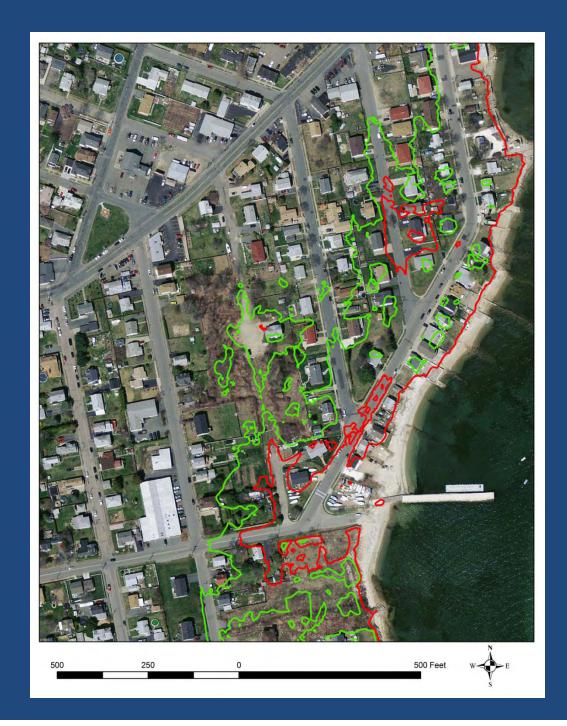


### New Bedford

### Padanaram Avenue

AHTL = 3.2 feet NAVD88

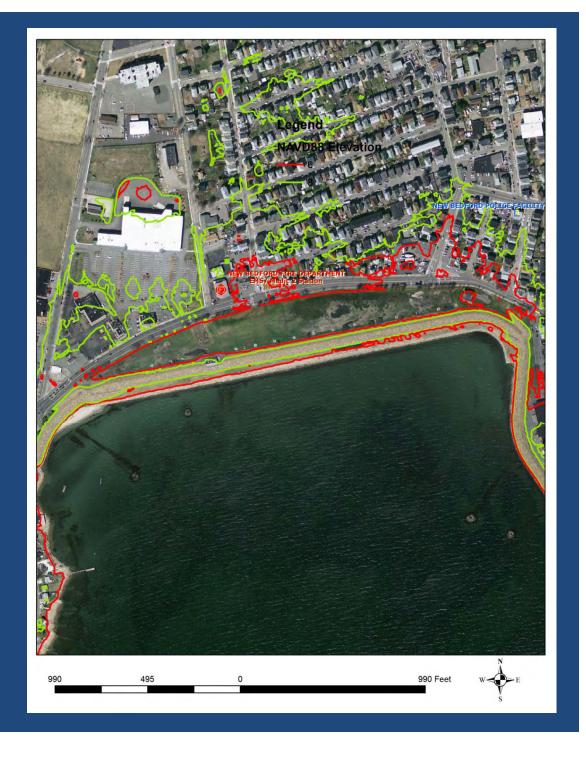
8.0 feet NAVD88



# New Bedford Cove Street

AHTL = 3.2 feet NAVD88

8.0 feet NAVD88



### New Bedford

# East Rodney French Boulevard

AHTL = 3.2 feet NAVD88

8.0 feet NAVD88



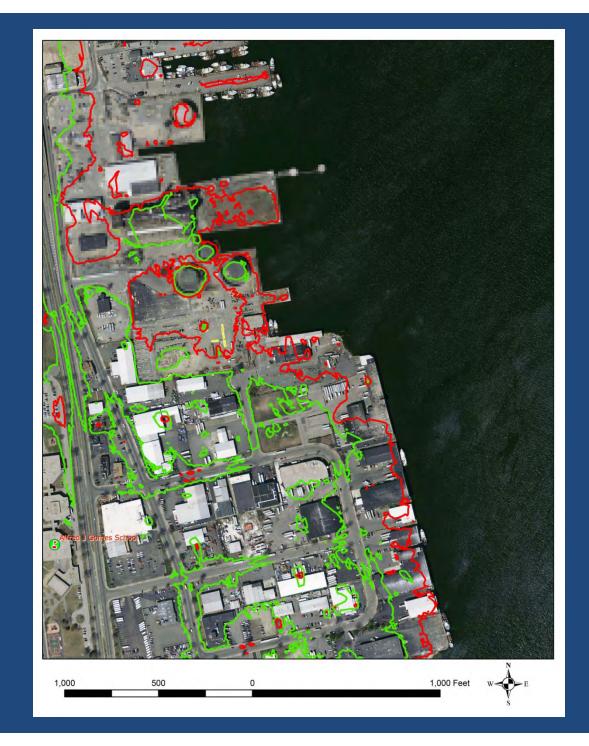
AHTL = 3.2 feet NAVD88

8.0 feet NAVD88



AHTL = 3.2 feet NAVD88

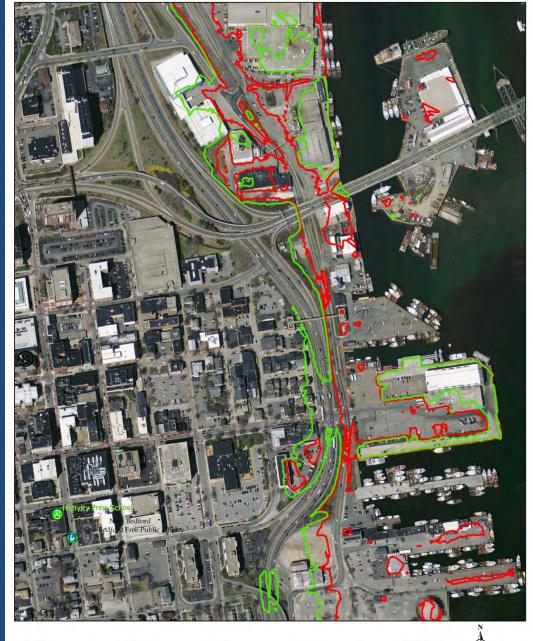
8.0 feet NAVD88



AHTL = 3.2 feet NAVD88

8.0 feet NAVD88

6.0 feet NAVD88

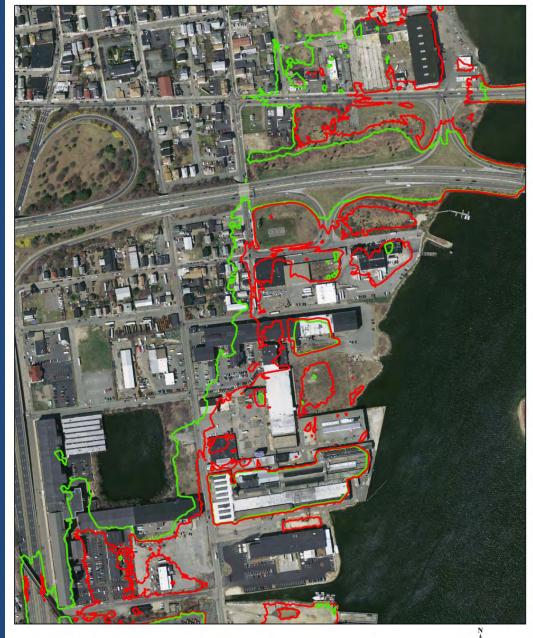


500 0 1,000 Feet



AHTL = 3.2 feet NAVD88

8.0 feet NAVD88





AHTL = 3.2 feet NAVD88

8.0 feet NAVD88



AHTL = 3.2 feet NAVD88

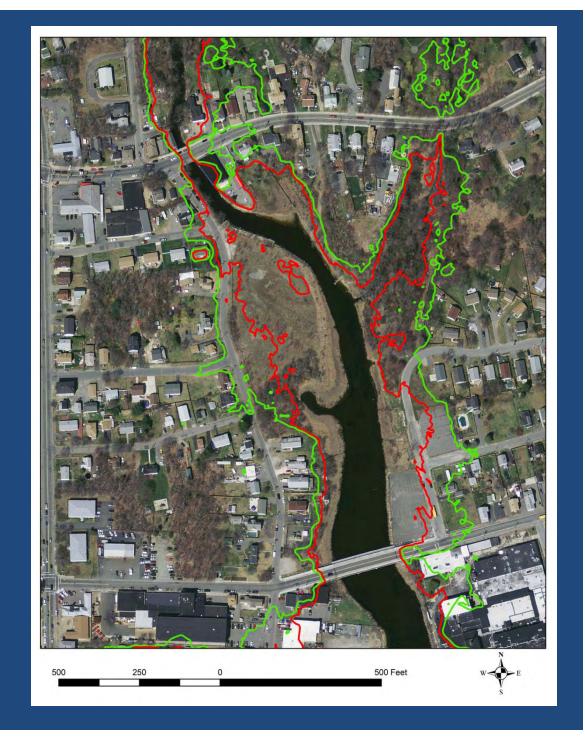
8.0 feet NAVD88



### New Bedford River Road

AHTL = 3.2 feet NAVD88

8.0 feet NAVD88



### Sycamore Street

AHTL = 3.2 feet NAVD88

8.0 feet NAVD88



### Howland Street

AHTL = 3.2 feet NAVD88

8.0 feet NAVD88



### Cushman Park

AHTL = 3.2 feet NAVD88

8.0 feet NAVD88

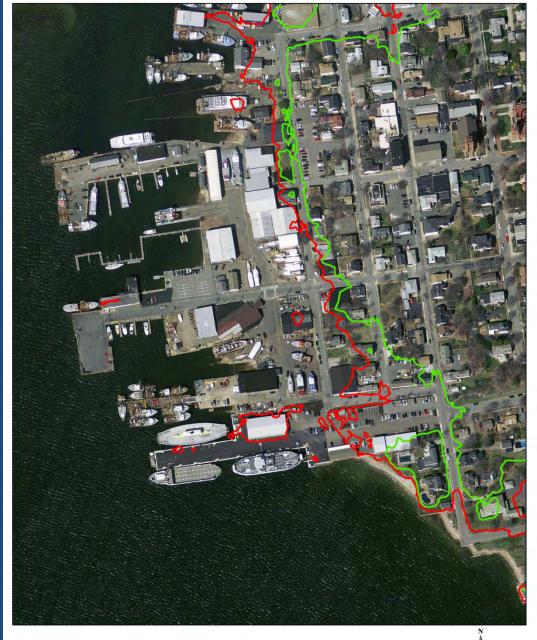


### Commercial Waterfront

AHTL = 3.2 feet NAVD88

8.0 feet NAVD88

6.0 feet NAVD88



300 0 600 Fee



### Commercial Waterfront

AHTL = 3.2 feet NAVD88

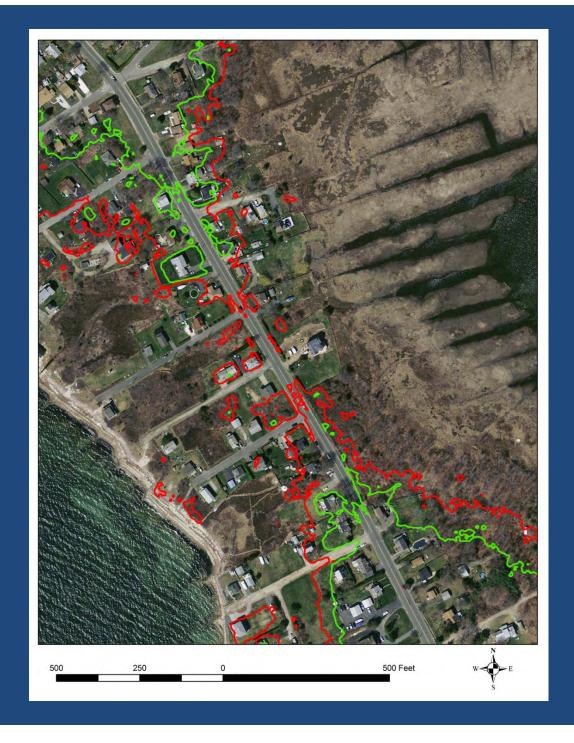
8.0 feet NAVD88



### Sconticut Neck Road

AHTL = 3.2 feet NAVD88

8.0 feet NAVD88



### Sconticut Neck Road

AHTL = 3.2 feet NAVD88

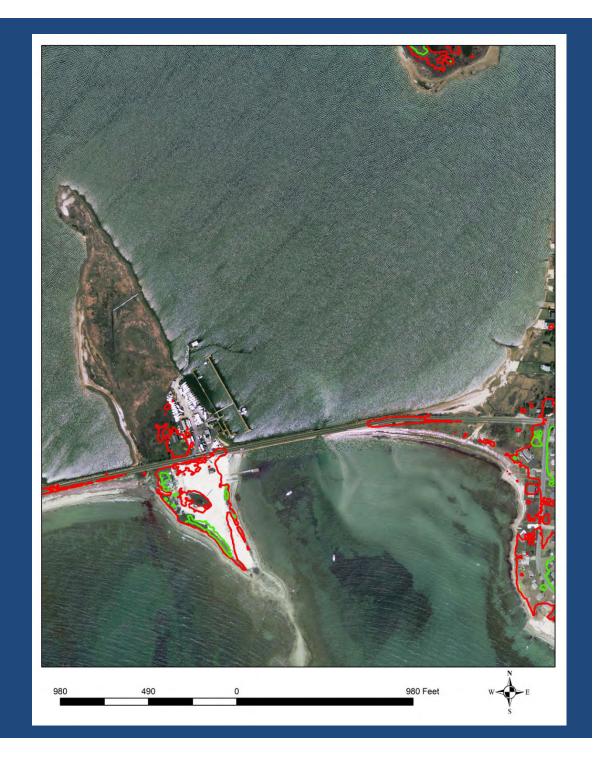
8.0 feet NAVD88



### West Island Causeway

AHTL = 3.2 feet NAVD88

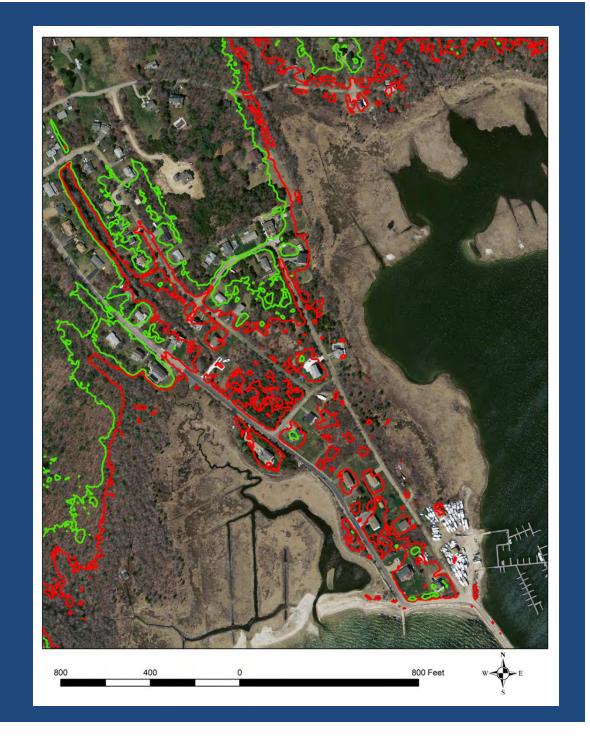
8.0 feet NAVD88



### Brandt Island Road

AHTL = 3.3 feet NAVD88

8.0 feet NAVD88



**Neck Road** 

AHTL = 3.3 feet NAVD88

8.0 feet NAVD88



### Reservation Way

AHTL = 3.3 feet NAVD88

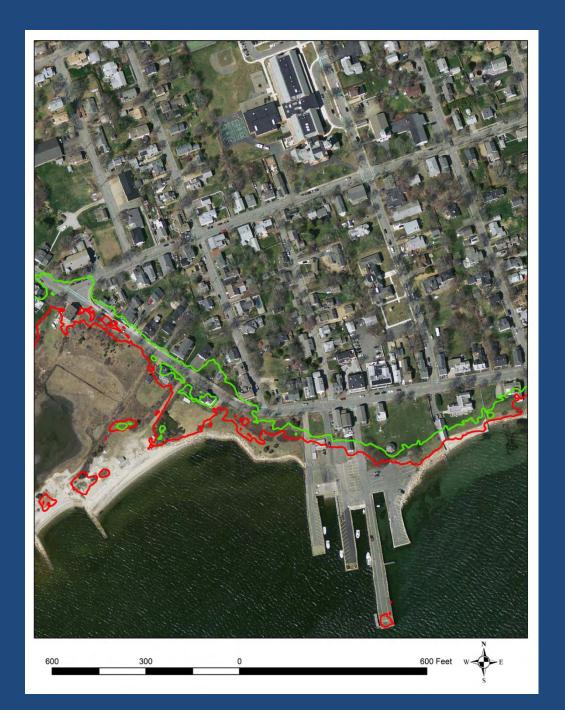
8.0 feet NAVD88



#### **Town Wharf**

AHTL = 3.3 feet NAVD88

8.0 feet NAVD88



**Ned's Point** 

AHTL = 3.3 feet NAVD88

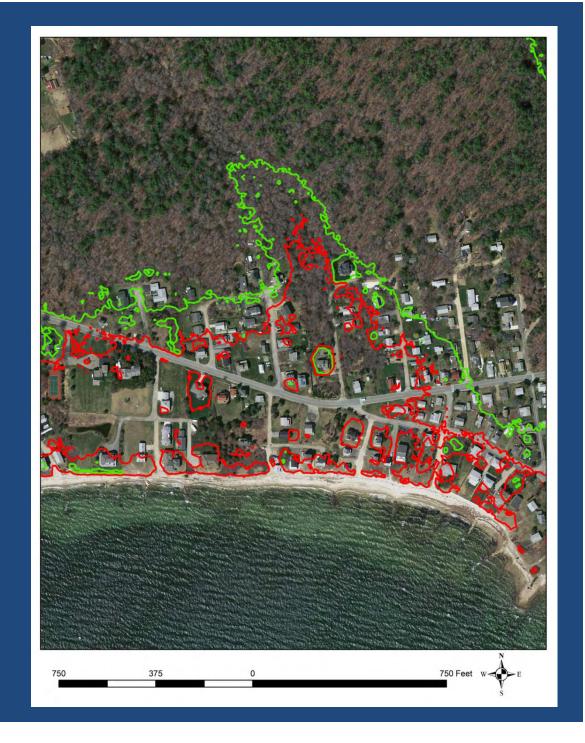
8.0 feet NAVD88



### Angelica Avenue

AHTL = 3.3 feet NAVD88

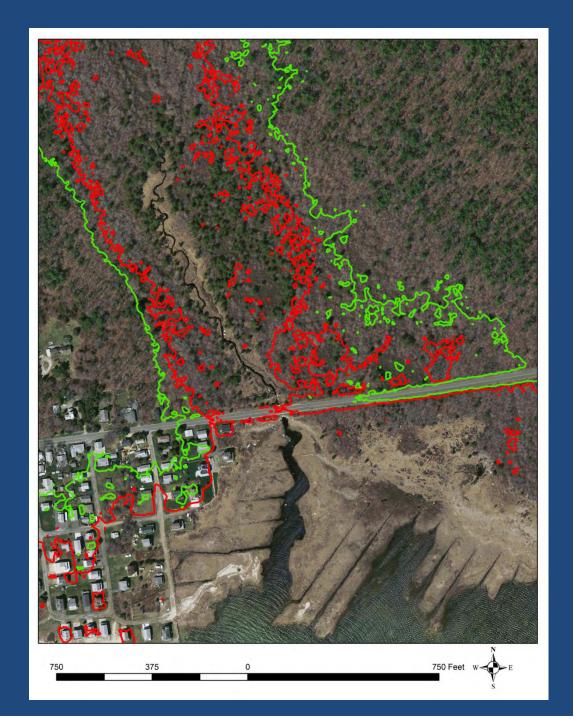
8.0 feet NAVD88



### Angelica Avenue

AHTL = 3.3 feet NAVD88

8.0 feet NAVD88

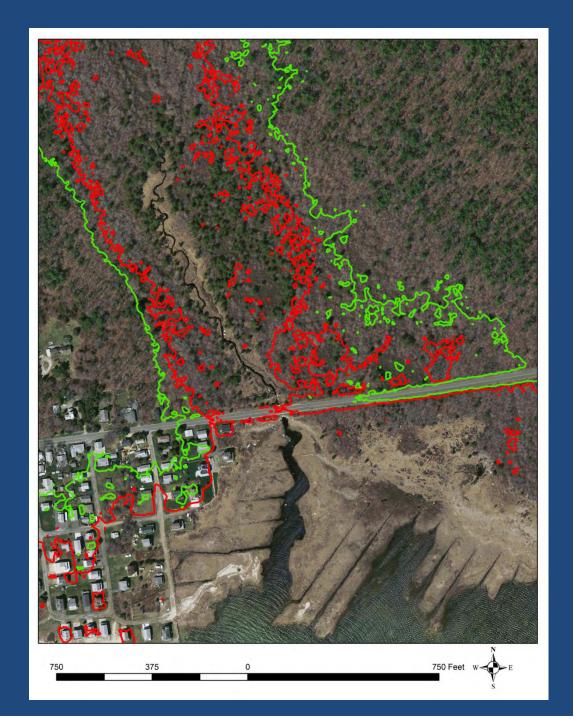


# Mattapoisett

# Angelica Avenue

AHTL = 3.3 feet NAVD88

8.0 feet NAVD88

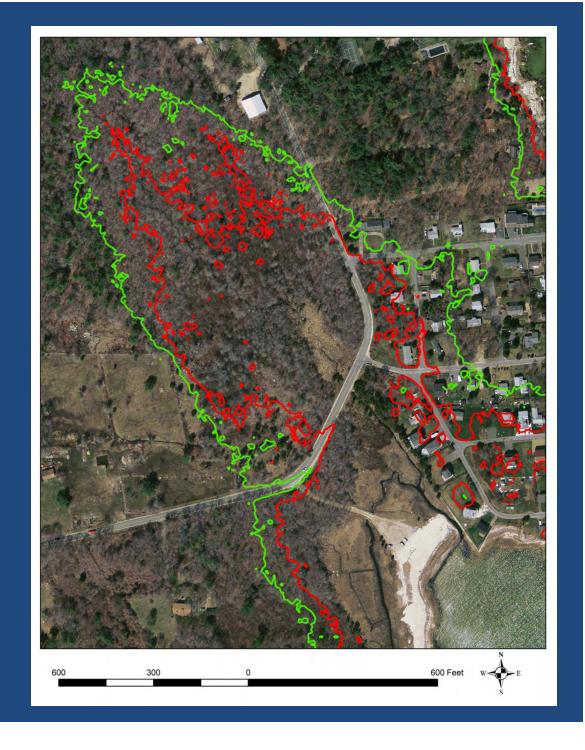


# Mattapoisett

**Aucoot Road** 

AHTL = 3.3 feet NAVD88

8.0 feet NAVD88



# Silvershell Beach

AHTL = 3.4 feet NAVD88

8.0 feet NAVD88



#### **Island Wharf**

AHTL = 3.4 feet NAVD88

8.0 feet NAVD88



#### **Front Street**

AHTL = 3.4 feet NAVD88

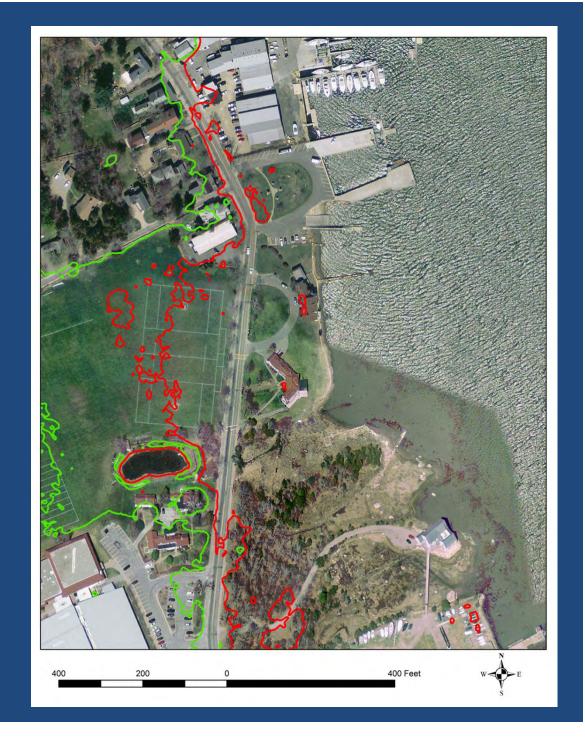
8.0 feet NAVD88



#### **Front Street**

AHTL = 3.4 feet NAVD88

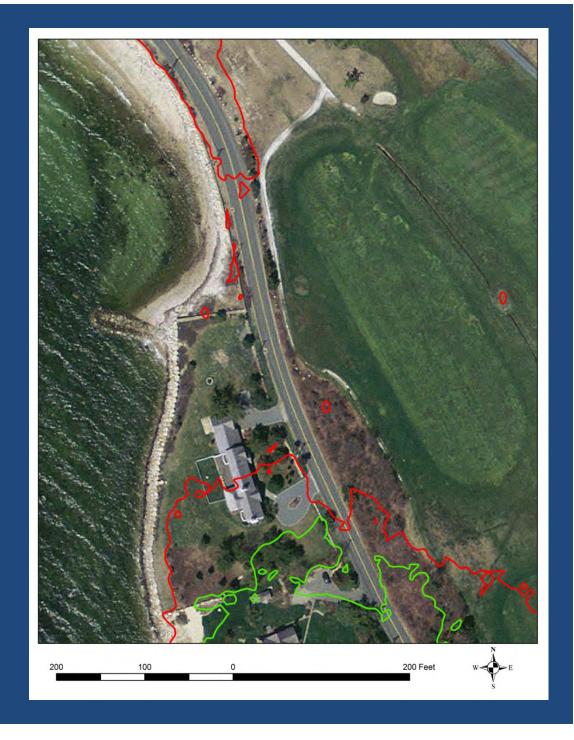
8.0 feet NAVD88



#### **Point Road**

AHTL = 3.4 feet NAVD88

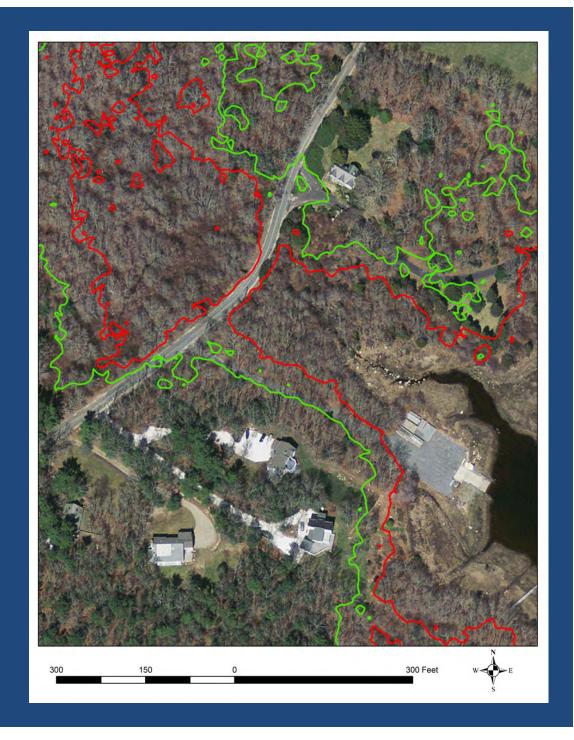
8.0 feet NAVD88



# Wing's Cove Boat Ramp

AHTL = 3.4 feet NAVD88

8.0 feet NAVD88



#### **Delano Road**

AHTL = 3.4 feet NAVD88

8.0 feet NAVD88



# Blackmore Pond Road

AHTL = 3.3 feet NAVD88

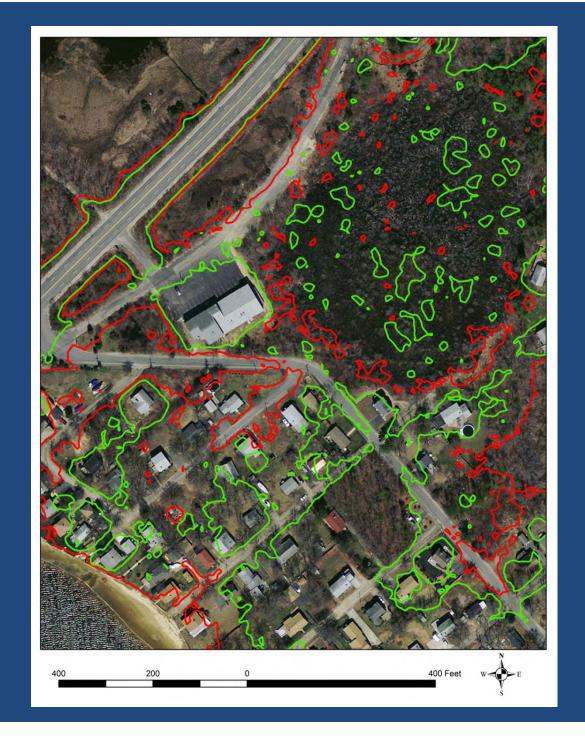
8.0 feet NAVD88



# Briarwood Road

AHTL = 3.3 feet NAVD88

8.0 feet NAVD88



# Cromesett Road

AHTL = 3.3 feet NAVD88

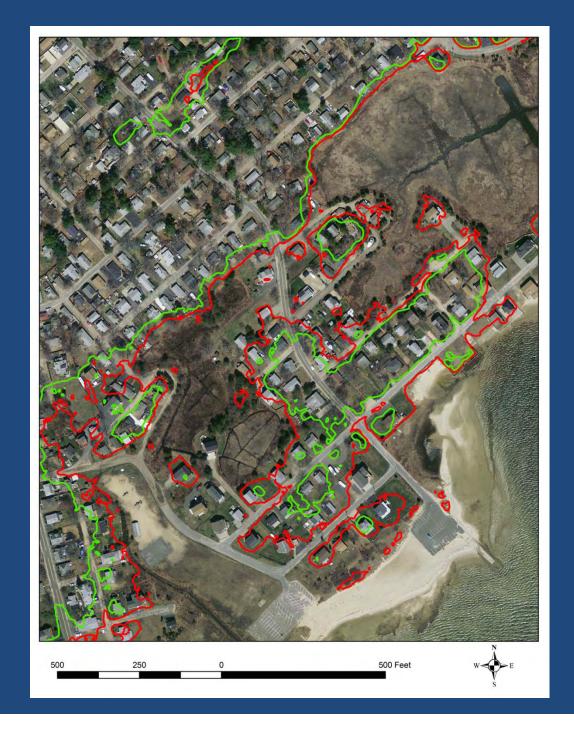
8.0 feet NAVD88



# Swift's Beach

AHTL = 3.3 feet NAVD88

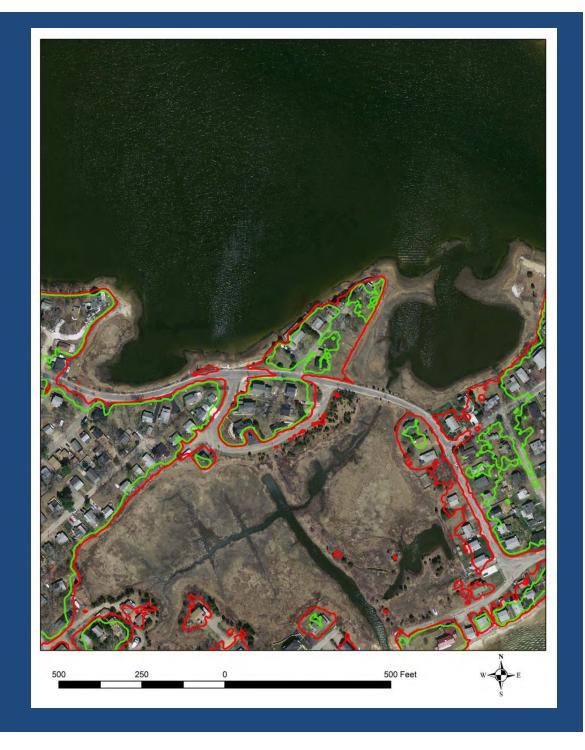
8.0 feet NAVD88



# Pilgrim Avenue

AHTL = 3.3 feet NAVD88

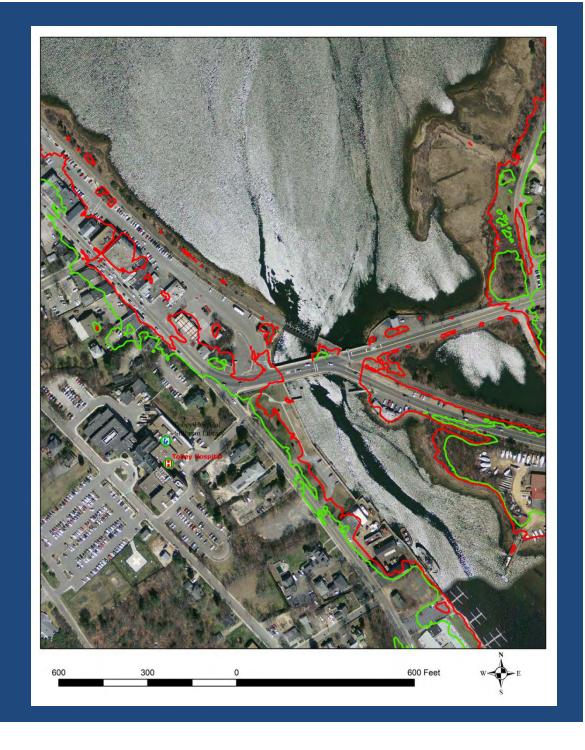
8.0 feet NAVD88



# The Narrows

AHTL = 3.3 feet NAVD88

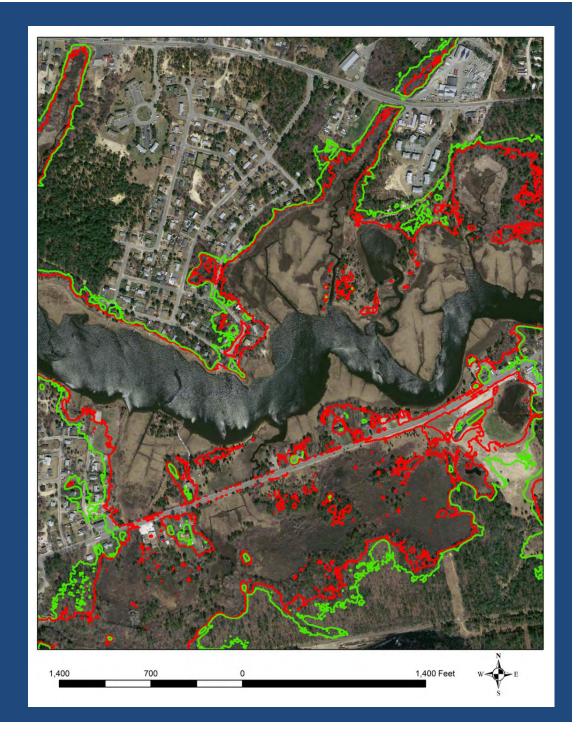
8.0 feet NAVD88



Route 6

AHTL = 3.3 feet NAVD88

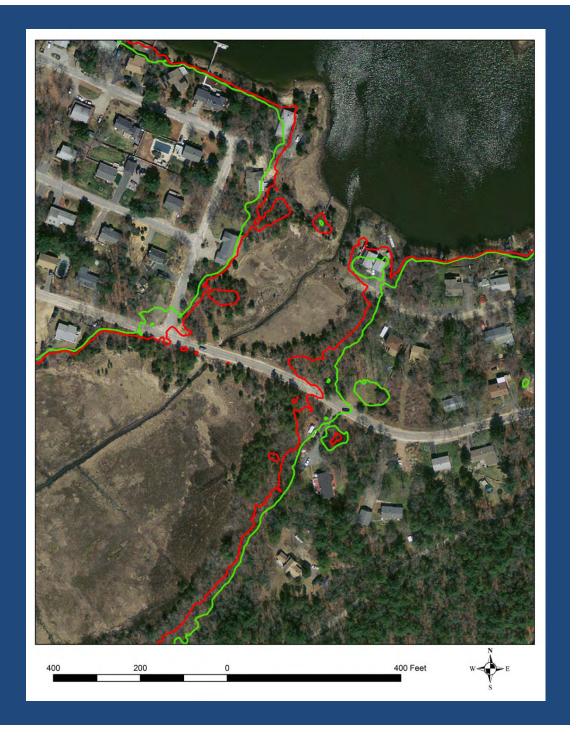
8.0 feet NAVD88



Alden Road

AHTL = 3.3 feet NAVD88

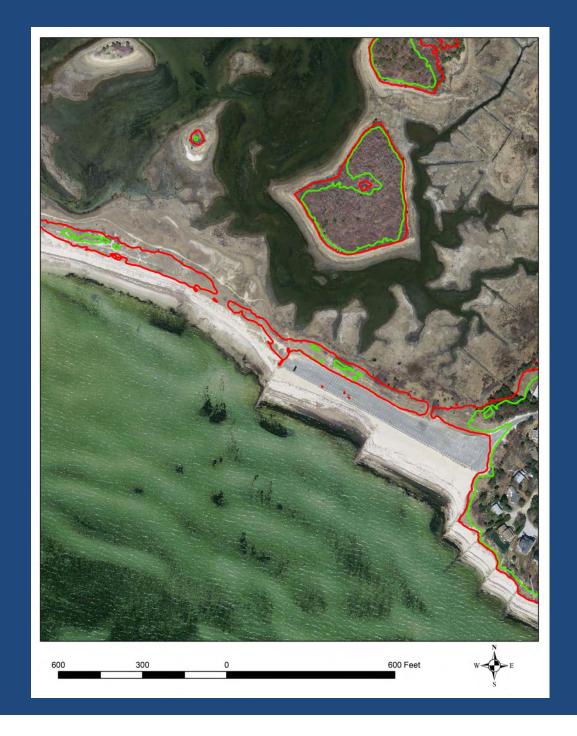
8.0 feet NAVD88



# Little Harbor Beach

AHTL = 3.2 feet NAVD88

8.0 feet NAVD88



# Agawam Beach

AHTL = 3.2 feet NAVD88

8.0 feet NAVD88



# Great Neck Road

AHTL = 3.2 feet NAVD88

8.0 feet NAVD88



# Onset Avenue

AHTL = 3.2 feet NAVD88

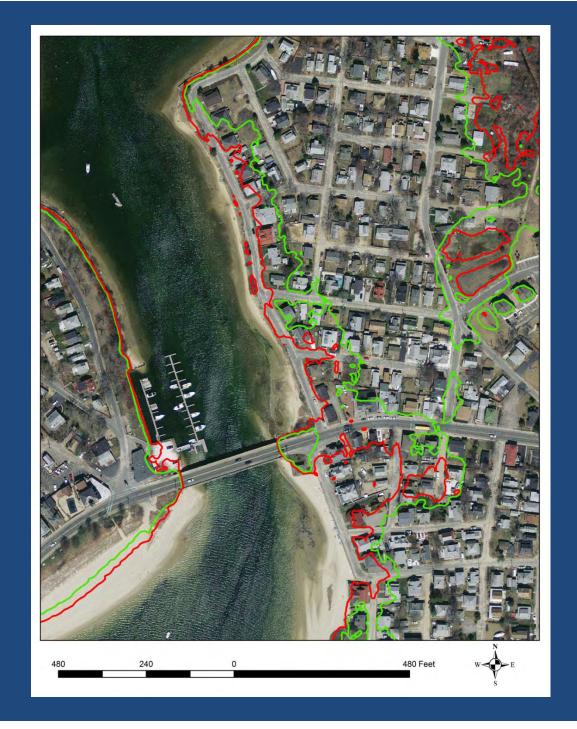
8.0 feet NAVD88



#### Water Street

AHTL = 3.2 feet NAVD88

8.0 feet NAVD88



#### **Cove Street**

AHTL = 3.2 feet NAVD88

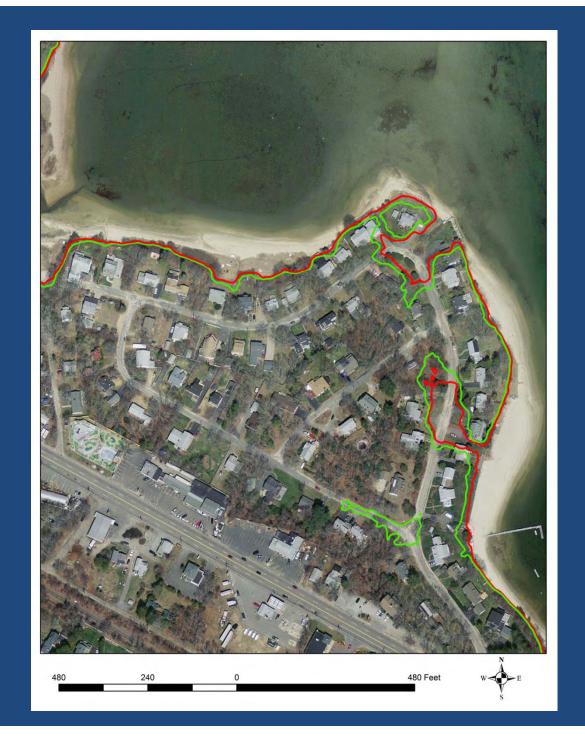
8.0 feet NAVD88



# Jefferson Shores

AHTL = 3.1 feet NAVD88

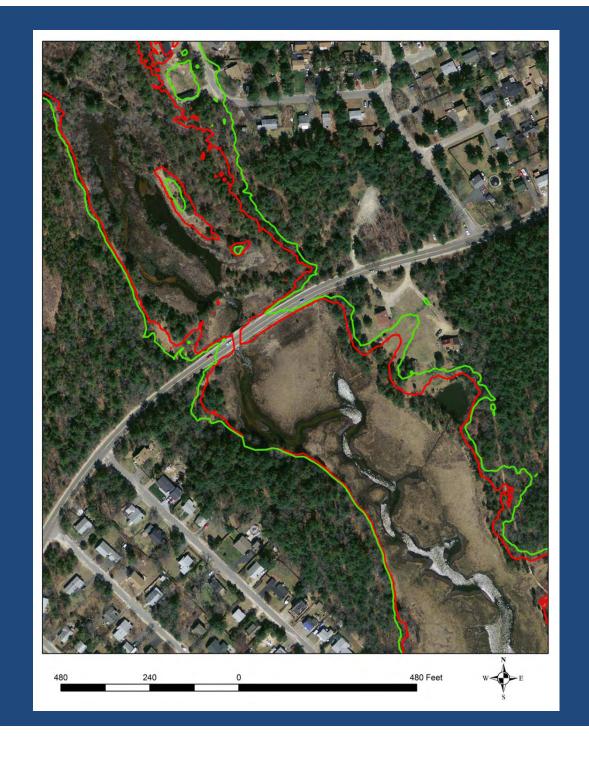
8.0 feet NAVD88



# Red Brook Road

AHTL = 3.1 feet NAVD88

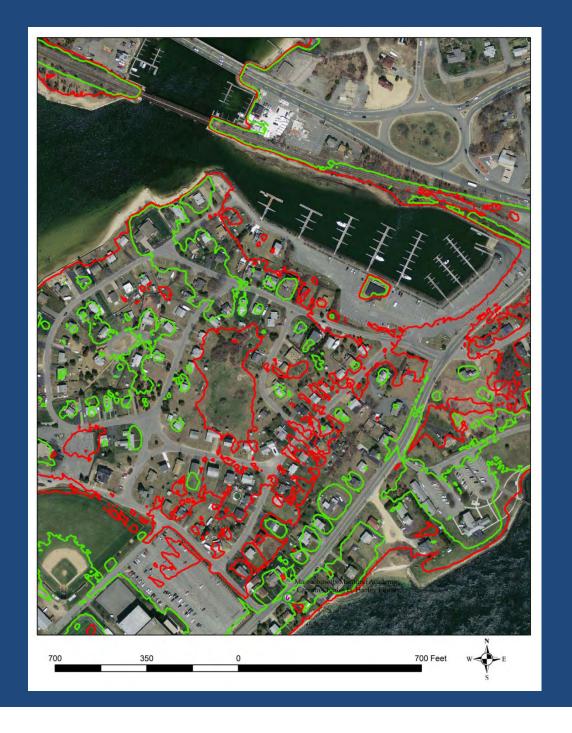
8.0 feet NAVD88



# Bourne Marina

AHTL = 3.1 feet NAVD88

8.0 feet NAVD88



# Mashnee Road

AHTL = 3.1 feet NAVD88





# Mashnee Island

AHTL = 3.3 feet NAVD88





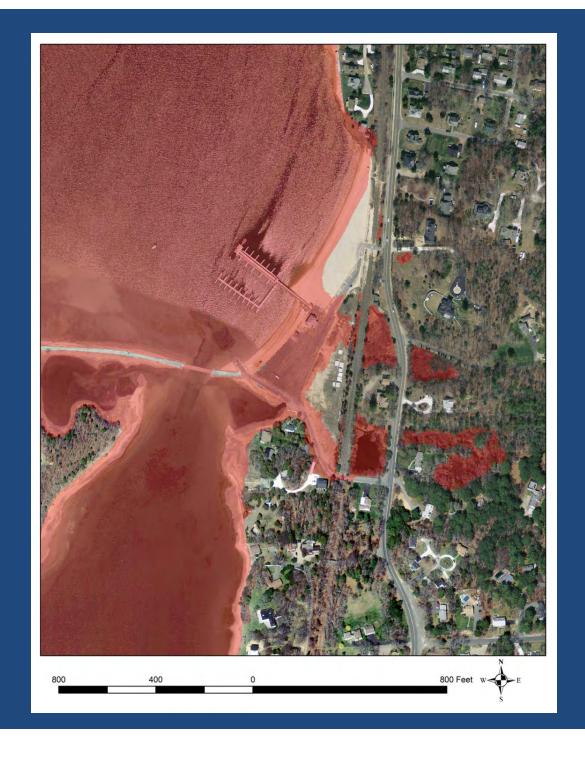
180 0 360 Feet



# Monument Beach

AHTL = 3.5 feet NAVD88

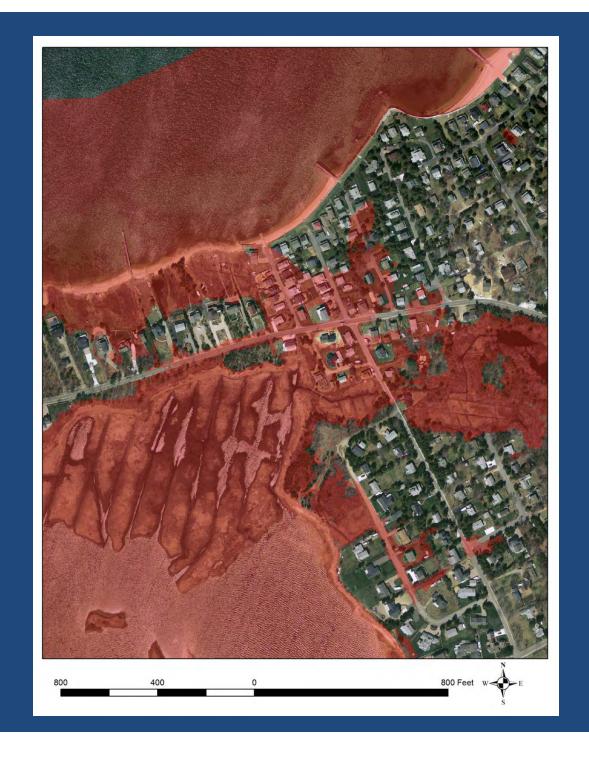




# Wing's Neck

AHTL = 3.5 feet NAVD88





#### Hen Cove

AHTL = 3.5 feet NAVD88



Area less than 6 feet NAVD88



# Parker's Boat Yard

AHTL = 3.5 feet NAVD88

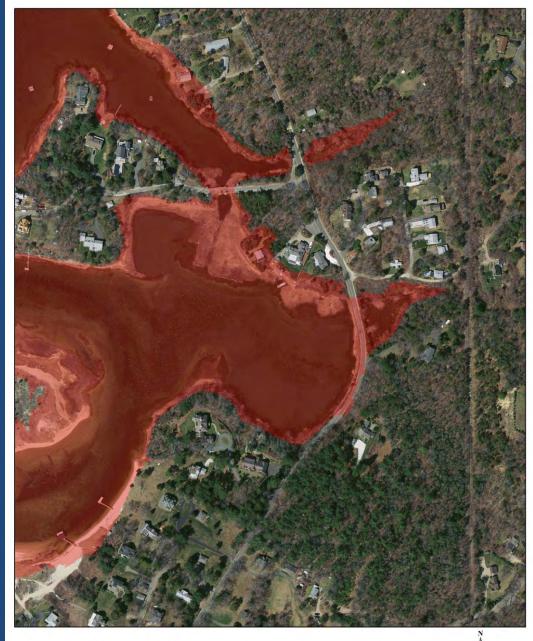




# Megansett Road

AHTL = 3.4 feet NAVD88



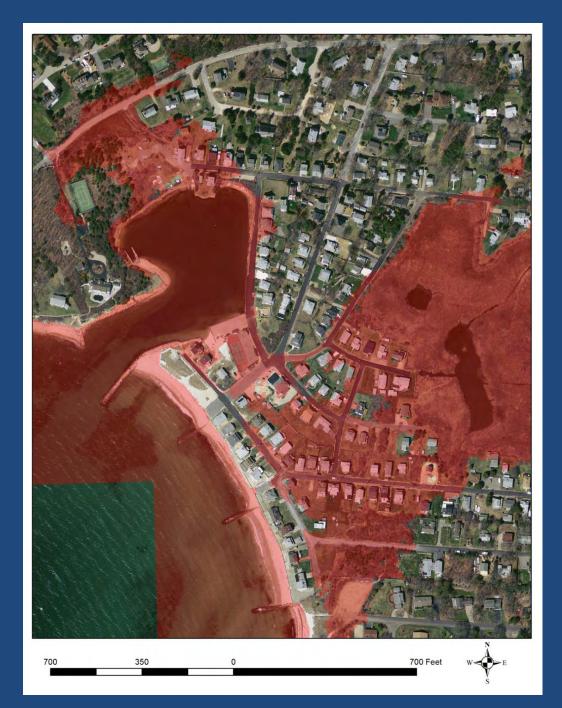


750 375 0 750 Feet W

# Silver Beach West Avenue

AHTL = 3.4 feet NAVD88





# West Falmouth Harbor

AHTL = 3.4 feet NAVD88



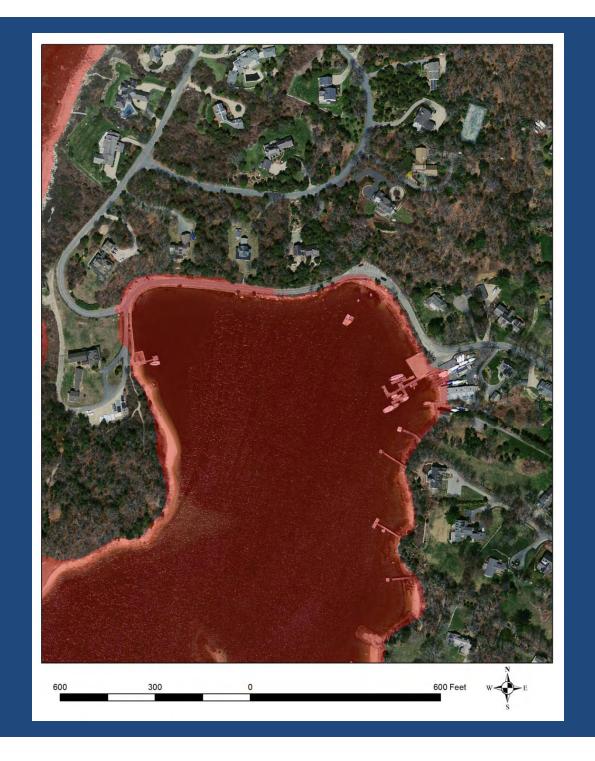


900 450 0 900 Feet w

# Quissett Harbor

AHTL = 2.4 feet NAVD88



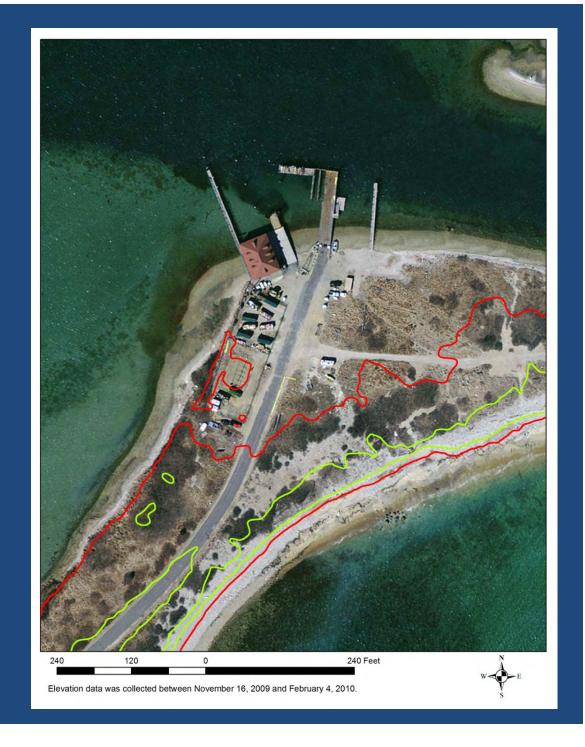


# Gosnold

#### Gas Dock

AHTL = 3.0 feet NAVD88

8.0 feet NAVD88

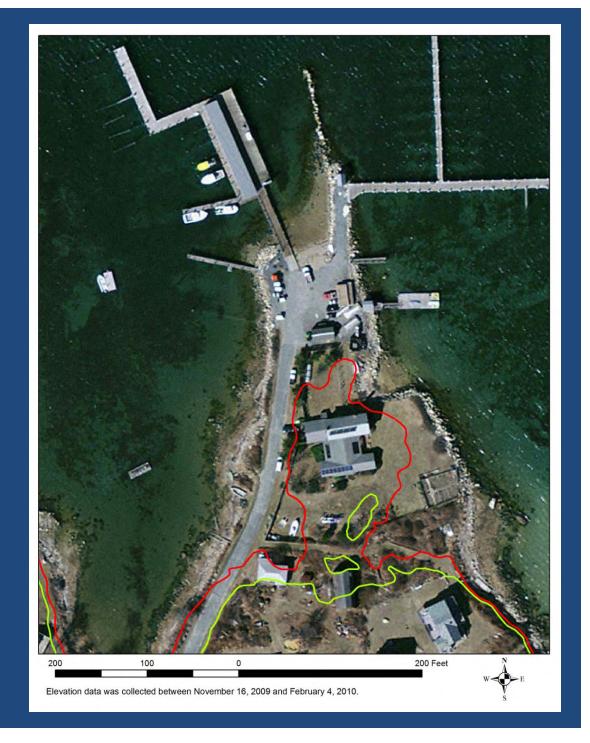


#### Gosnold

# The Point Fish Dock & Marina

AHTL = 3.0 feet NAVD88

8.0 feet NAVD88



For more information contact John Rockwell at the Buzzards Bay National Estuary Program, 2780 Cranberry Highway, East Wareham, Ma 02538 #508-291-3625 x14 email: john.rockwell@state.ma.us