

Using the MyCoast Coastal Resilience Tool for Monitoring Shoreline Change and Coastal Resilience



Apponaug Cove

Arnolds Neck Drive

**2019 Land and Water Conservation Summit
University of Rhode Island
March 9, 2019**

Help Chronicle Our Changing Coast

REGISTER

Use MyCoast to document tides, storm damage, beach cleanups, and more. Coastal decision makers, emergency managers, and others use your reports to make better decisions.

www.mycoast.org

How You Can Help

State and municipal employees, planners, developers, business owners, and others all need information to make the best decisions. Your reports can help provide that information. The process is quick and easy:



1. You Add Your Picture or Report

Take your picture via our mobile app (below) or submit it via your browser when you get back to your computer.



2. We Fetch Background Data

Our servers retrieve weather and tidal information to add context to your photo.



3. Your Report Informs Decisions

Coastal leaders and groups can use your data to make better decisions.



MyCoast: Rhode Island

A project of the **Rhode Island Coastal Resources Management Council**, **URI Coastal Resources Center**, **Rhode Island Sea Grant**, and **Save The Bay**

MyCoast: Rhode Island is a portal to collect and analyze pictures and data relating to coastal events. **Information collected through this site is used to visualize the impact of coastal hazards and to enhance awareness among decision-makers and stakeholders.** Scroll down to view existing reports, or use the button below to submit a new report.

Rhode Island MyCoast has 3 Tools Activated



King Tides

Capturing Rhode Island's Highest Tides



StormReporter

Documenting Storm Damage in Rhode Island



Coastal Resilience

Monitoring Living Shorelines & Coastal Change

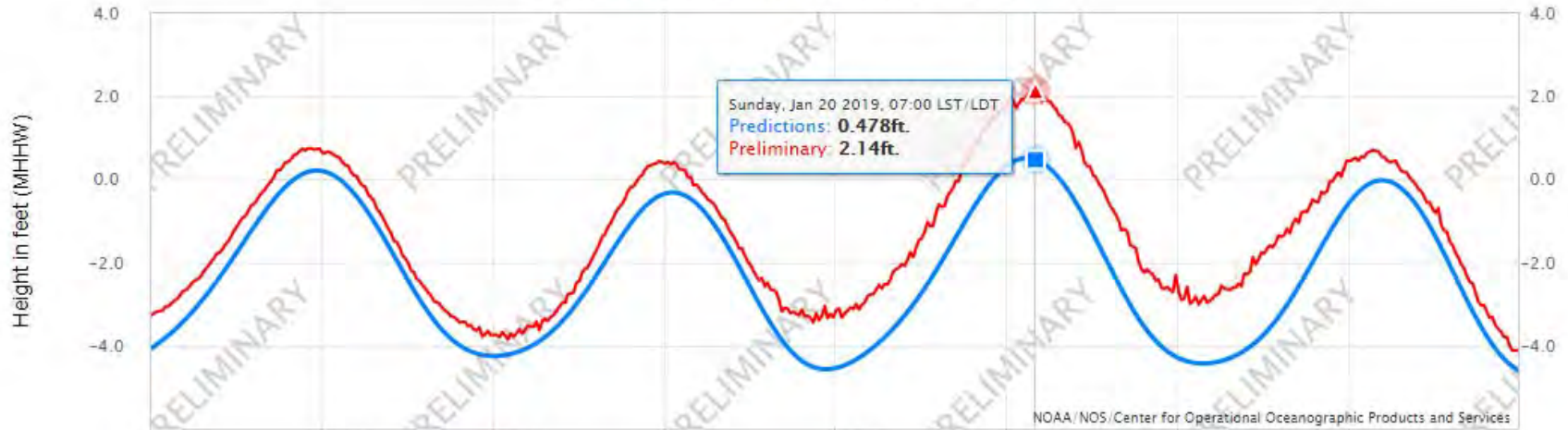


King Tides



Pete August - January 20, 2019

NOAA/NOS/CO-OPS
Observed Water Levels at 8452660, Newport RI
From 2019/01/19 00:00 LST/LDT to 2019/01/20 23:59 LST/LDT



Datums (MHHW)

MHHW M

MSL M

MLW M

ArcGIS STORMTOOLS for Beginners

Modify Map Sign In

Details Basemap

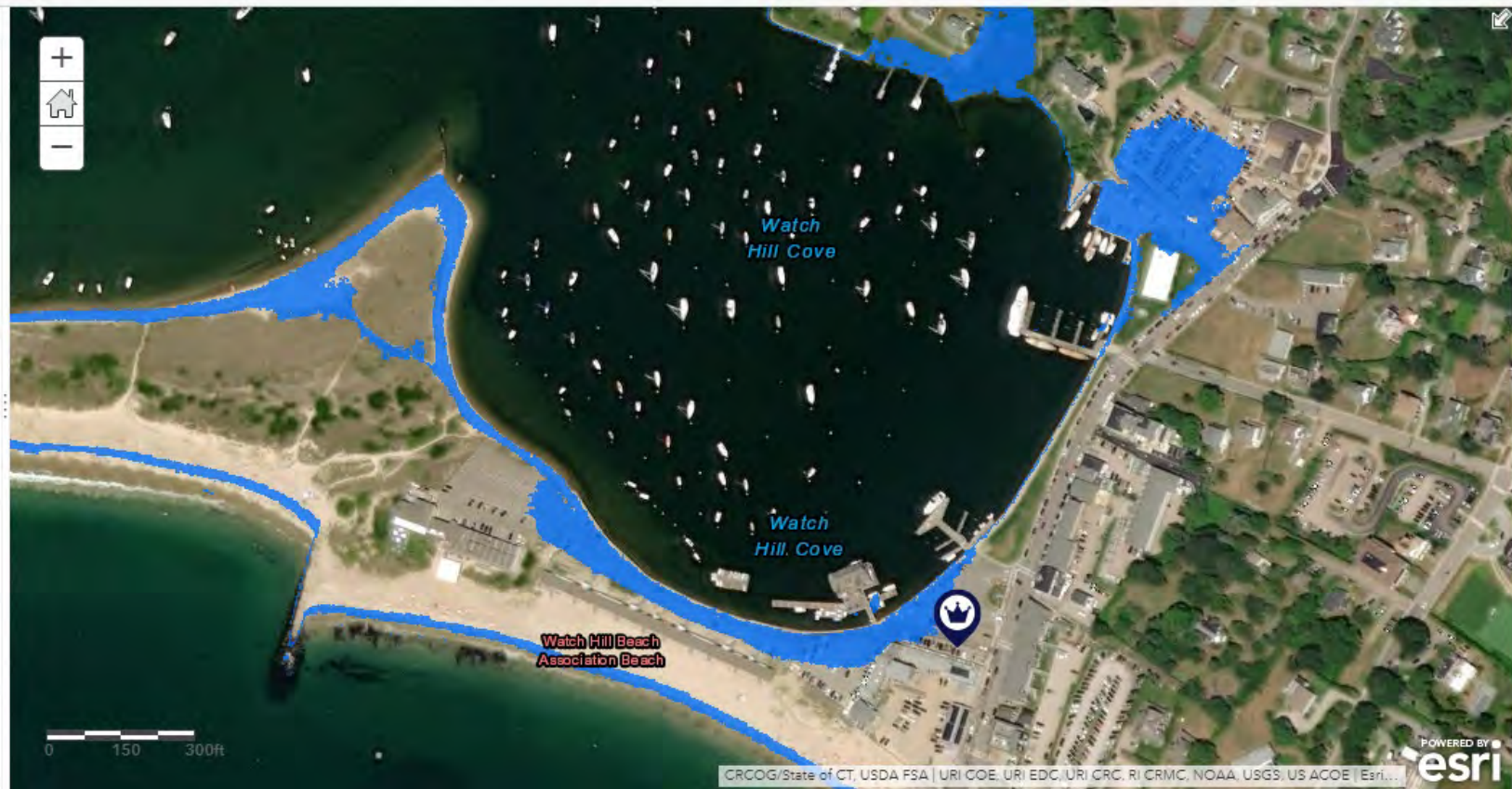
Share Print Measure Find address or place

About Content Legend

Legend

Will 2-FEET of SEA LEVEL RISE affect my property?

■





FURNITURE & METAL
STOPPING
24-6361



PRODUCTS

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PROGRAMS

Serving the Nation

EDUCATION

Tides, Currents, and Predictions

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Station Info

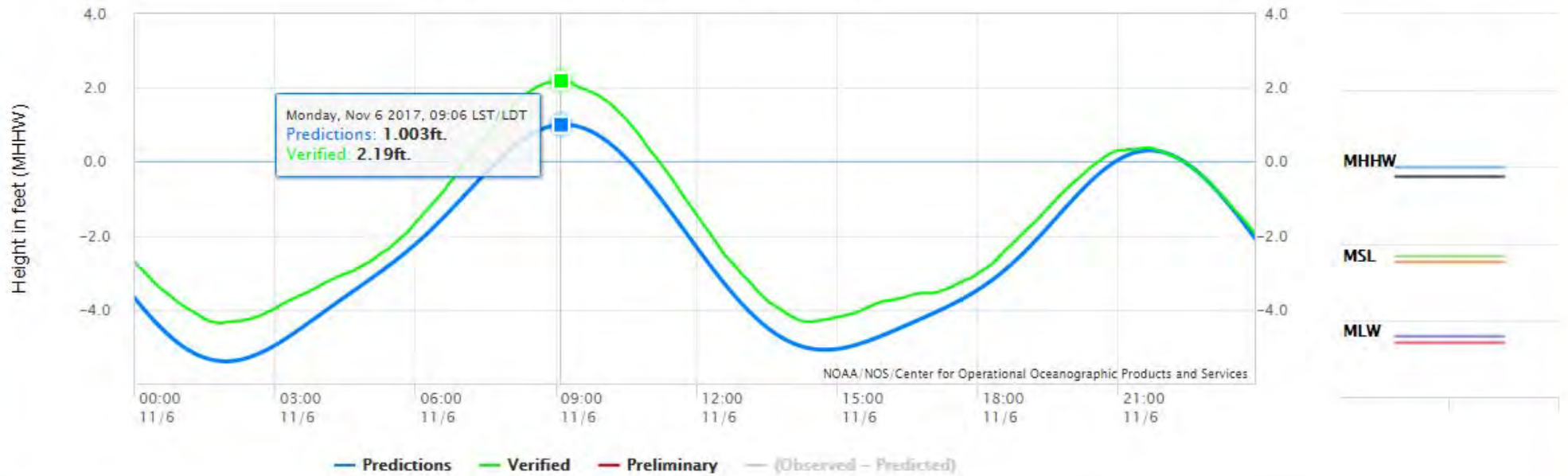
Tides/Water Levels

Meteorological Obs.

Phys. Oceanography

PORTS®

NOAA/NOS/CO-OPS
Observed Water Levels at 8452944, Conimicut Light RI
From 2017/11/06 00:00 LST/LDT to 2017/11/06 23:59 LST/LDT



Options for

8452944 Conimicut Light, RI

From:

Nov 6 2017

To:

Nov 6 2017

Units

Standard

Timezone

LST/LDT

Datum

MHHW

Shift dates

Back 1 Day Forward 1 Day

Interval

6 min 1 hr H/L Day Month

Update

Plot Data Only

[Details](#) | [Basemap](#)

[Share](#) [Print](#) ▾ | [Measure](#)



Legend

Will 1-FOOT of SEA LEVEL RISE affect my property?



Will 2-FEET of SEA LEVEL RISE affect my property?



Will 3-FEET of SEA LEVEL RISE affect my property?





10 - 20 ppt salinity

11-27-18

Newport high tide height 1.44 ft above MHHW

Nuisance Tides Frequency

January 1, 2018 to December 31, 2018

- >2 ft MHHW = 5
- 1.5 ft MHHW-2 ft MHHW = 18
- 1 ft MHHW-1.5 ft MHHW = 54

What will happen in the future?

Nuisance tides frequency with 1 foot of sea level rise

	2018	1 ft SLR
• >2 ft MHHW	= 5	77 (5>3')
• 1.5 ft MHHW-2 ft MHHW = 18		118
• 1 ft MHHW-1.5 ft MHHW = 54		202

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March 2 – 5, 2018



March 3, 2018 (storm surge 1.77' at spring tide
(2.28 feet MHHW))

3-5-18

minor beach and dune erosion

March 2 – 5, 2018



Charlestown – Charlestown Beach Road
minimal costs for removal of overwash sand

3-5-18

Minor overwash and tidal flooding

Roy Carpenter Beach Rd | Washington County

[VIEW ON STORMTOOLS](#)

Storm Report by Rachel Calabro

Damage Reported



 10/30/2012 | 3:15 pm

(5 hours 33 minutes before high tide)



Weather Overview



Wind Speed: 11 MPH

Wind Direction: 126°

Temperature: 65°F

Rainfall (Calendar Day): 0.2"

Rainfall (Past 24 Hours): 0.22"

(Click here for full weather details)

Tidal Overview

Data from **Newport** (15.5 miles away)



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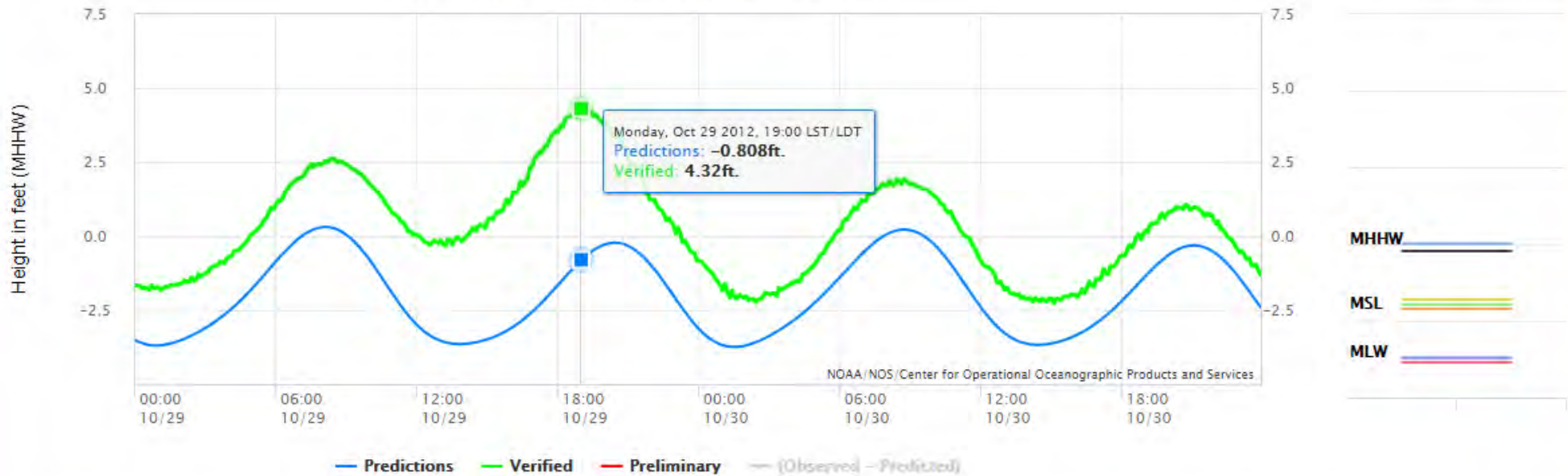
HELP & ABOUT

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Station Info ▾ Tides/Water Levels ▾ Meteorological Obs. Phys. Oceanography PORTS®

NOAA/NOS/CO-OPS
 Observed Water Levels at 8452660, Newport RI
 From 2012/10/29 00:00 LST/LDT to 2012/10/30 23:59 LST/LDT



Options for

From:

To:

Units

Timezone

Datum ⓘ

Shift dates

Interval

Update

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1 Add Photo 2 Preview 3 Embedded 4 Settings 5 Submit

Select Photo

No file chosen Accepted file types: jpg, jpeg, png, gif.

Date of Photo *

3/4/2019

Photo Description

Time of Photo *

06	10	PM
HH	MM	

General Site Characteristics

Coastal resources in/directly adjacent to project footprint

(check all that apply)

- beach (sandy)
- beach (mixed sediment)
- beach (cobble)
- dune
- coastal bank
- salt marsh (fronting beach)
- salt marsh (estuarine/protected)
- intertidal (mud)
- intertidal (sand)
- intertidal (rock)
- subtidal
- tidal river

General Site Characteristics

Project elevation

(check all that apply)

- above mean high water (MHW)
- between MHW and mean low water (MLW)
- below MLW

Coastal infrastructure present at site

(check all that apply)

- none
- revetment
- bulkhead/seawall
- groin/jetty
- culvert
- multi-use path or road
- parking lot
- other

Site Stability and Recovery

Site stability

(relative to previous visit)

▼ unknown
stable
accreting
eroding

Dominant vegetative type within project area

PREVIOUS

NEXT



1 Add Photo 2 Physical 3 Biological 4 Structural 5 Summary

Site Stability and Recovery

Site stability

(relative to previous visit)

Vegetative cover of project area

- none
- sparse (<25%)
- moderate (25-75%)
- dense (>75%)

area

PREVIOUS

NEXT



Site Stability and Recovery

Site stability

(relative to previous visit)

Vegetative cover of project area

Dominant vegetative type within project area

- none
- grasses
- shrubs
- submerged aquatic vegetation (e.g., eelgrass)
- destabilizing plants (e.g., knotweed and bittersweet)
- other



Maintenance and Other Issues

Displaced/unanchored and degraded project materials

(check all that apply)

- none
- coir rolls
- erosion-control mats/blankets
- shellfish bags
- rocks
- other

Human impacts at project site

(check all that apply)

- runoff
- foot traffic
- vehicles
- vandalism
- other

Marine-related impacts

(check all that apply)

- crabs
- sea ice
- boat wakes
- boat haul-out (motorized and non-motorized)
- wrack
- marine debris
- storm damage

Monitoring Data/Report

Data Files

Please paste a link below to files (beach profile data, bird counts, etc) relevant to this report.

http://

Comments

(not required)

Stillhouse Cove 2013



Stillhouse Cove 2018







Coastal Adaptation Project Inven...

23 views

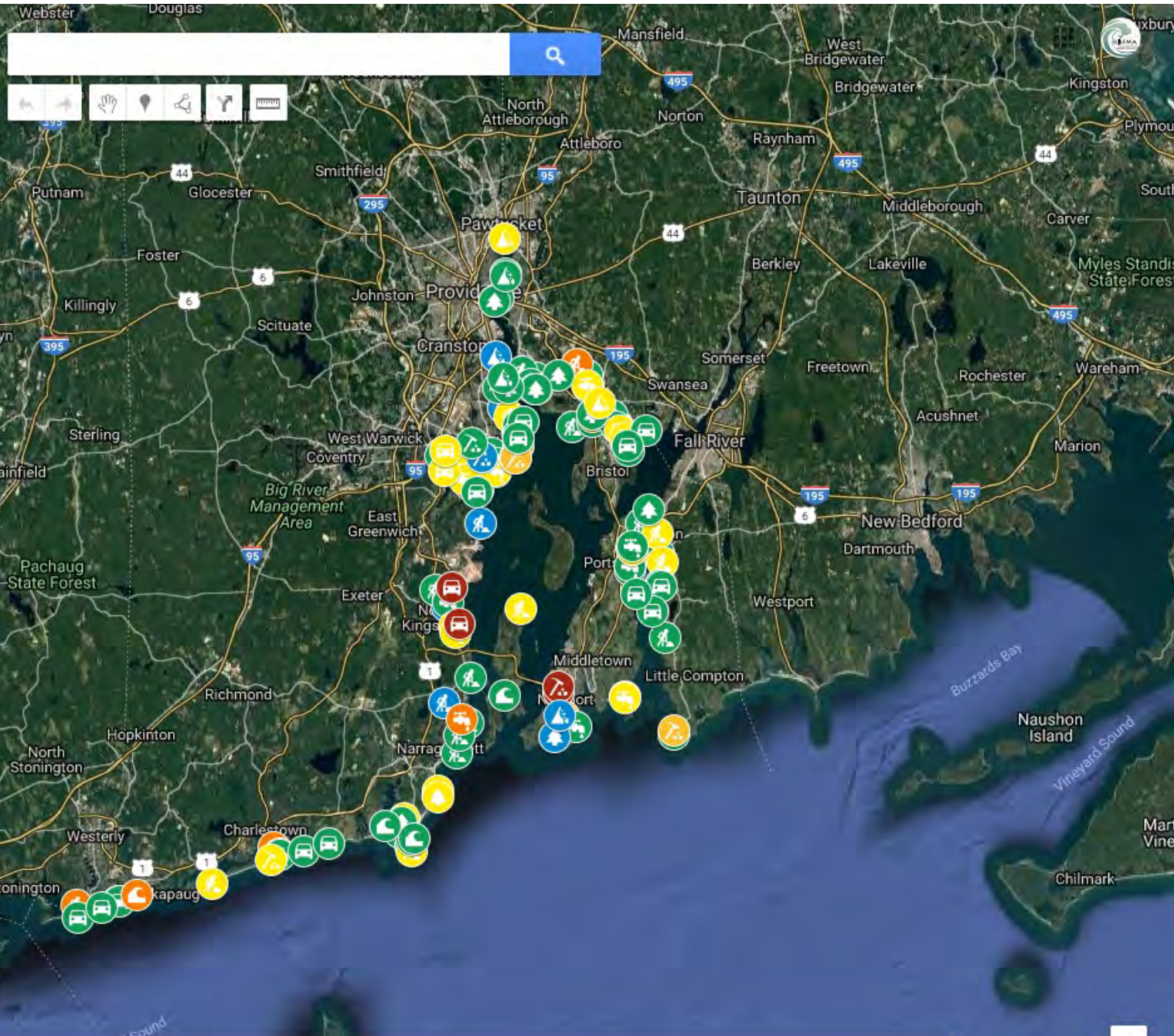
All changes saved in Drive

Add layer Share Preview

Pavement Removal projects

Individual styles

- Latham Park, Barrington
- Pettaquamscutt Ave, Narragansett
- Beach St, North Kingstown
- Calf Pasture Point, North Kingstown
- Clark Road, Warren
- Mill Cove Rd, Warwick
- Rock Ave, Warwick
- Adams Ave, Barrington
- Haines Park, Barrington
- Beach Rd, Barrington
- Orchard Ave, Barrington
- Holly Ln, Barrington
- Belvedere St, Barrington
- San Miguel Dr, Bristol
- Kickemuit Ave, Bristol
- Sunrise Dr, Bristol
- Sawyer Ave, East Greenwich
- Bonnet Shores, Narragansett
- Cormorant Rd, Narragansett
- Fishermen's Memorial Park, ...
- Conant Ave, Narragansett
- Pine St, Newport
- Roger Williams Dr, North Kingstown



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When you move a map to the Trash, it can now be found and recovered in your Google Drive Trash folder.

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