

ol Town Beach and Sports Complex

I Department of Parks and Recreation

ırt Street RI 02809 ; (401) 253- 1611

Walter V. Burke - Director Sarah Klein – Assistant Director

I Town Council

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ation Board

nn, Chairman e Mascena, Vice Chairman Horne

ntonevich

Davis

Pacheco

Squires

Town Administrator

Antonio A. Teixeira





ecting Our Environment

ew Your Property

Topography – Direction of land
What kind of buffer zone frames property
Storm Drains – How many / locations
Wetlands – Don't ignore them
Septic System / Sewer lines
Invasive Plants – Poison ivy / Bitter sweet
Ground Water – Does water infiltrate



- Invasive Birds Canadian geese & swans
- Trees Inventory with healthiness recorded
- Traffic Flow- Keep cars away from water
- Contributing Factors- Currents; neighbors; boating
- Fertilization- Chemical vs. Organic
- Usage of salt on roads during winter
- Effects of beach erosion

ecting Our Environment

t We Observed

Our land slopes toward the bay

We found four storm drains

One wetland area (poor condition)

Two septic leaching fields (poor condition)

Large amount of invasive plants

Beach field saturated most days (bowled in the middle)





otecting Our Environment

hat We Observed

Geese gatherings on beach field

Most trees are dangerous

Kids screeching tires & driving

near beach

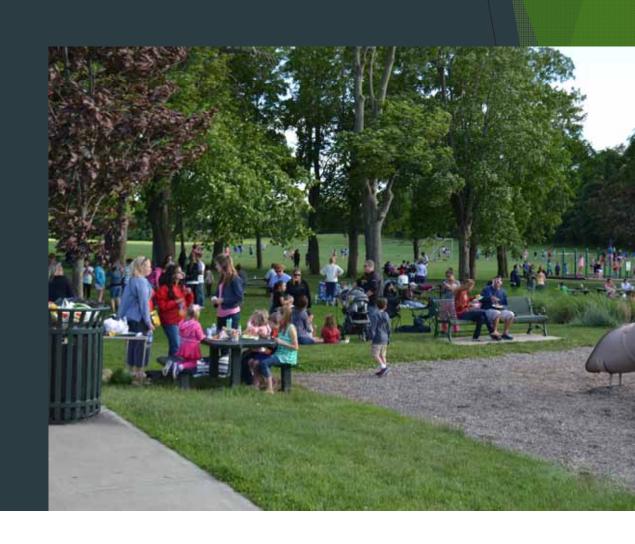
Sewer plant in Warren -

Providence River

Sport field fertilized with

chemicals

We no longer use salt



ke A Plan

aborate & Bring In The Experts

ment of Environmental Management

I Resources Management Council

ment of Health

ment of Transportation

nmental Protection Agency

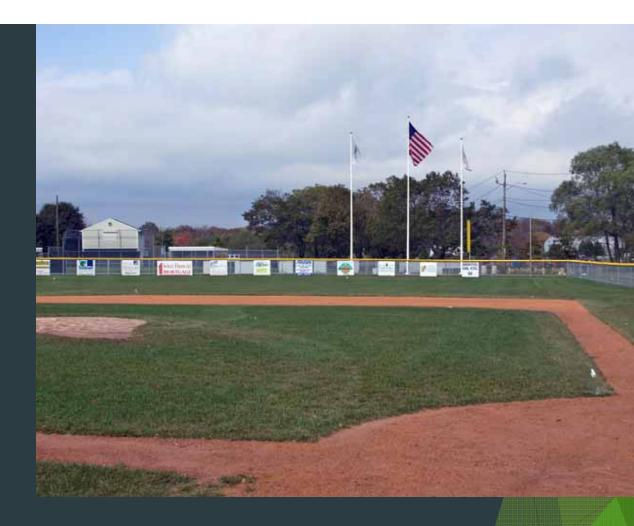
Corp of Engineers

Resources Conservation Services

ne Bay

ederal organizations such as NOAA, ional Parks Service etc.

Conservation Groups



The resources they provide is crucial to the success of your facility.

They Are Not Your **Enemy**.

at They Bring To The Table

fessional experts in specialized areas

rsonnel and departmental resources

torical Perspective - GIS mapping

e Bigger Picture – surrounding communities

uipment – beach groomers – low impact

ckhoes

ey help you understand permit requirements

bility Protection

itical Clout – In a good way

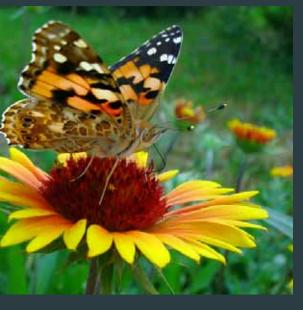
ney – Their collaboration legitimizes posals

Jusais

Grants – State, Federal, Private / Finding matching monies



r Successes



- Removed two leaching fields and septic systems replaced with forced main sewer line;
- Installed vortex unit and bio swale on the north west corner of the 350 car parking lot;
- Installed new Parking Lot with six bio-retention "Rain Gardens";
- Installed three bio retention water quality cells for parking lot and two playground areas;
- ▶ We planted over 150 trees;



Successes

We raised the beach field by up to 3 feet & planted trees to eliminate Canada geese

Installed a pervious pavers patio;

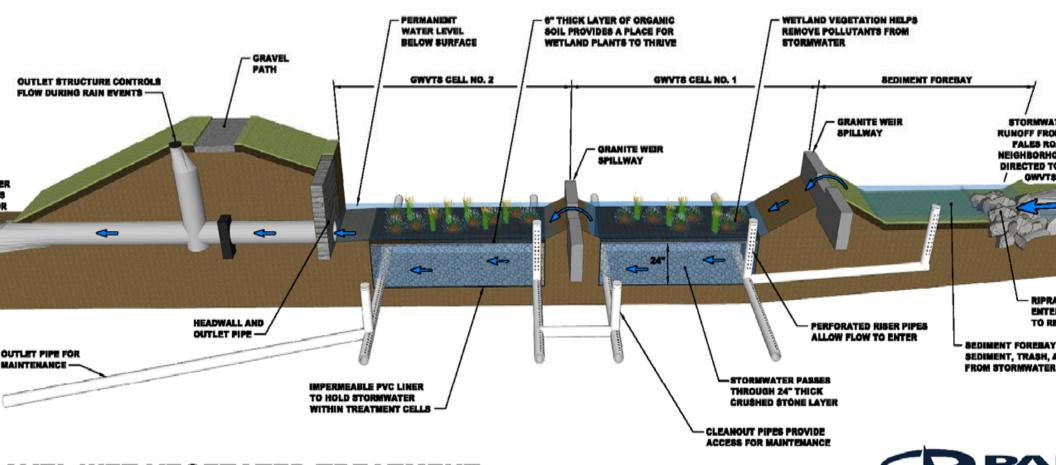
Planted "marsh grass" along north side of beach;

Planted a buffer of native plants on the northern border; and

Conducted educational programs with our camp children.

Summer of 2012 we had an 80% improvement in beach water quality. (closed only once in early June 2012) The summer of 2013 had 0 closures. 2014 closed only one day (during major rain storm).





AVEL WET VEGETATED TREATMENT STEM (GWVTS) PROFILE

itional Projects

0,000 project to build a large "gravel wet vegetated treatment em" which treats storm water coming out of a 36"storm drain drains 95 acres of a residential neighborhood.

air of the outfall within the wetland to allow storm water to erse within the wetland area;

0,000 project to reduce the beach road from 20' wide to 10' = - limit access to bikes, pedestrians and emergency vehicles;

ated a scenic overlook on the south side of the beach;

nediate erosion issues on the south side of the beach front

allation of an educational kiosk along new pathways centered eaching children the importance of protecting the ronment.

rade all our sport field lighting to energy efficient lighting and nge all park lighting to LED.

rade pumps and hydro fracture two artesian wells to conserve er resources.

all a sports plaza to include a hockey rink, two basketball ts, two tennis courts, two bocce courts, and three chess / ckerboard tables.



ner Related Projects

store the entire wetland area to help it be more ductive;

ened our new "Quinta-Gamelin Community nter", and

vide regional environmental training in partnership our state agencies as stated earlier; Use of Solar ergy

move and replace the beach sand to make it more itary for visitors;

sign a plan to remediate the 1,458 acre Bristol tershed with Bristol Golf Course, Mt. Hope High nool and Silver Creek.

have partnered with NRCS, RI Conservation mmission, Save the Bay, NE Conservation vices, Save Bristol Harbor and BW School District estore the athletic fields at Mt. Hope High School.

ceived \$800,000 from DEM to carry out the Mt. be High School project



ding

2008, redesign of the parking lot began as a \$70,000 Supplement nmental Project (SEP), as required by the EPA.



- Installation of a drainage and piping system - controls storm water runoff
- Installation of hoods and bacteria filters in catch basins
- Vegetative buffer between parking lot and beach at Bristol Town Beach
- Installation of a Vortex storm water treatment system to capture fine-particle pollutants.
- Installation of a vegetated swale at the outfall of the drainage system
- Section 319 Nonpoint Source Abatement and Management - \$36,620 "Bristol Town Beach Storm water Pipe Retrofit Design and Permitting Project"



ding



- ▶ \$1,000,000 State Revolving Fund (SRF) low interest loan; ARRA funds for the design and construction of a new "Green" Parking Lot, Beach Field and water quality enhancements.
- In 2011, RIDEM contributed \$220,000 through a second Section 319 grant. "Gravel Wet Vegetated Treatment System" to collect storm water discharge from a 36" storm drain and a small drain pipe on our northern boarder.
- ▶ \$100,000 DEM Trails Grant; To create walking trails, reduce beach access road from 20ft wide to 10ft wide; fix erosion issue on south side of beach.
- \$400,000 DEM large Open Space and Recreation grant to build the Sport Courts plaza
- \$150,000 DEM small Open Space and Recreation grant to upgrade to energy efficient lighting.





