

The Niantic River Watershed – Successful Partnerships for Watershed-Based Plan Implementation



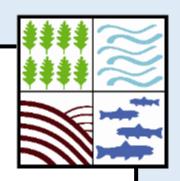
Judy Rondeau

Eastern Connecticut Conservation District

August 16, 2018

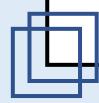






- Watershed towns East Lyme, Montville, Salem and Waterford
- Residents of the watershed towns
- Pine Grove Association
- Save the River-Save the Hills
- Friends of Oswegatchie Hills Nature Preserve
- East Lyme Land Trust
- East Lyme Public Trust Foundation
- Dominion Energy Millstone Power Plant
- CT Sea Grant
- University of Connecticut Marine Science Department

- University of Connecticut Extension Program
- University of Connecticut
- Connecticut College
- CT Department of Energy & Environmental Protection
- New England Forestry Foundation
- Long Island Sound Study
- The Nature Conservancy
- US Geological Survey
- US EPA

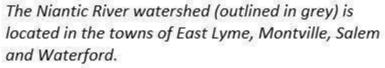


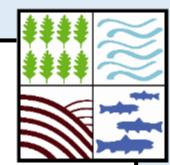


Where is the Niantic River Watershed???











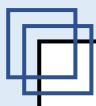
A Few Niantic River Facts

- 1.3 sq mi estuary located between Waterford and East Lyme
- Discharges to Long Island Sound one of 28 estuaries in the National Estuary Program
- Multiple recreational and commercial uses including: swimming, boating, kayaking, commercial fishing, fishing excursions, shellfish farming, recreational shellfishing, restaurants, shops, marinas, and tourism
- The Niantic River is listed as impaired for:
 - aquatic life support
 - primary recreational contact
 - direct consumption of shellfish
 due to pollutants primarily associated with stormwater runoff,
 including fecal bacteria and nitrogen.

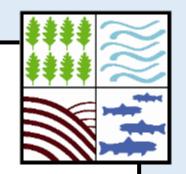




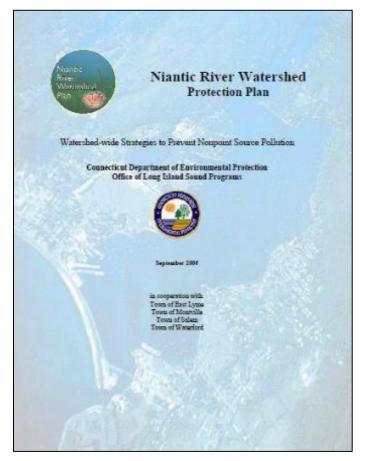




Niantic River Watershed Protection Plan (2006)



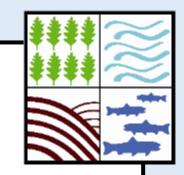
- Niantic River Watershed Protection
 Plan (NRWPP) was prepared through a
 one-time grant from the National
 Oceanic and Atmospheric Association's
 (NOAA) Office of Ocean and Coastal
 Resource Management (OCRM).
- The NRWPP addresses the impairments and recommends the reduction of bacterial and nutrient loading from stormwater outfalls, runoff, and direct discharges.







Key Watershed Plan Recommendations

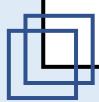


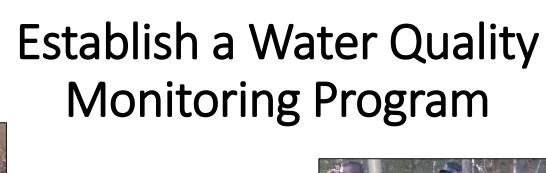
- Create a **coalition of watershed stakeholders** to take a leadership role for the implementation of the watershed plan.
- Hire or appoint a watershed coordinator for the watershed.
- Establish a comprehensive, long-term water quality monitoring program.
- Raise stakeholder awareness by implementing a watershed management information and education campaign.
- Reduce bacterial and nutrient loads from stormwater outfalls, runoff and direct discharge.

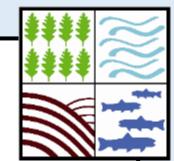
Minimize flooding impacts by reducing peak stormwater runoff flows and volume from impervious surfaces.



Photo credit: Tim Cook, The Day



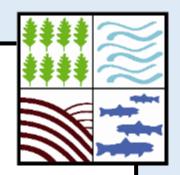








Niantic River Tributary Water Quality Monitoring - 2012

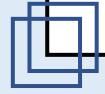


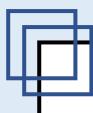
Project Partners:

- US EPA Region 1 Volunteer Water Quality Monitoring Equipment Loan Program
- Niantic River Nitrogen Work Group
- Town of East Lyme DPW
- Town of Waterford Planning Department
- Dominion Power Millstone Plant Environmental Lab
- University of Connecticut Marine Science Department
- Local volunteers

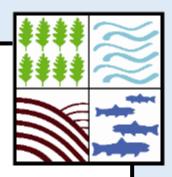


The NRWC water quality monitoring program was made possible in part by funds from the Unilever United States Foundation and support from US EPA Region 1.





Riffle Bioassessment by Volunteers (RBV) - 2012



- The Last Green Valley Volunteer Water Quality Monitoring Program
- CT Department of Energy & Environmental Protection
- East Lyme Conservation of Natural Resources Commission
- East Lyme Cub Scout Pack 7
- Local volunteers
- Watershed Towns

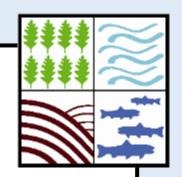


The NRWC RBV program was made possible in part by funding from the Unilever United States Foundation.

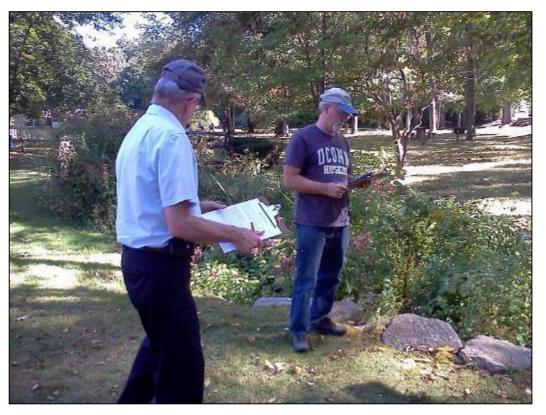




Latimer Brook Stream Corridor Assessment - 2011 and 2014



- The Last Green Valley Volunteer Water Quality Monitoring Program
- CT Natural Resources
 Conservation Service (NRCS)
- Town of East Lyme
- Local volunteers

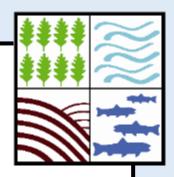


The NRWC StreamWalk program was made possible in part by funds from the Unilever United States Foundation and a grant from the Environmental Professionals of Connecticut (EPOC).





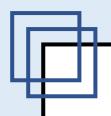
Stream Temperature Monitoring - 2013



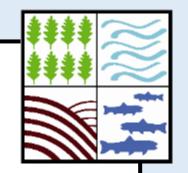
- CT DEEP Water Quality Monitoring and Inland Fisheries Divisions
- Town of East Lyme
- Property owners
- Local volunteers







Implement a Watershed Management Information and Education Campaign

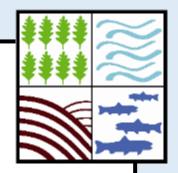








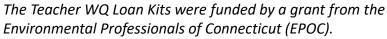
Teacher Water Quality Loan Kits - 2012



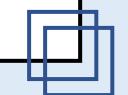
Partners:

 School Departments and middle and high school science teachers from the Towns of East Lyme, Waterford and Montville

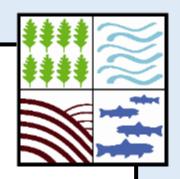










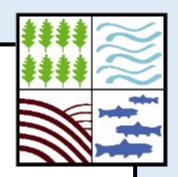


- Town of East Lyme DPW
- Towns of East Lyme and Salem School Departments
- CT DEEP Watershed Division
- CT DEEP Fisheries Division
- University of CT Extension Master Gardener Program
- Southeastern Connecticut Regional Resource Recovery Authority





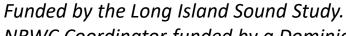
2017-2018 - Niantic River Community-Based Social Marketing Behavior Change Campaign



Project Partners:

- Long Island Sound Study (Project Lead)
- The Nature Conservancy
- Towns of Waterford and East Lyme DPWs & Planning Departments
- Local volunteers
- CT Sea Grant
- University of CT Extension Master Gardeners Program
- University of CT Marine Science Department
- Turf Scientists University of CT College of Agriculture



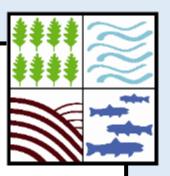


NRWC Coordinator funded by a Dominion Energy Charitable Foundation Environmental Stewardship grant.





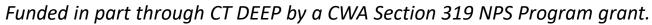
2018 - Stormwater BMPs and the MS4 Permit Workshop

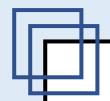


- Town of East Lyme DPW
- CT Non-point Source Education for Municipal Officials (NEMO) program

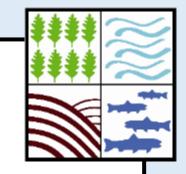


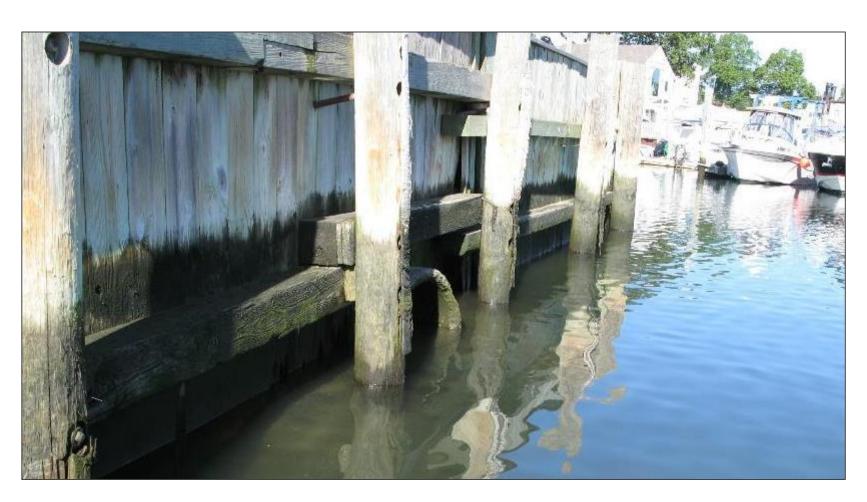


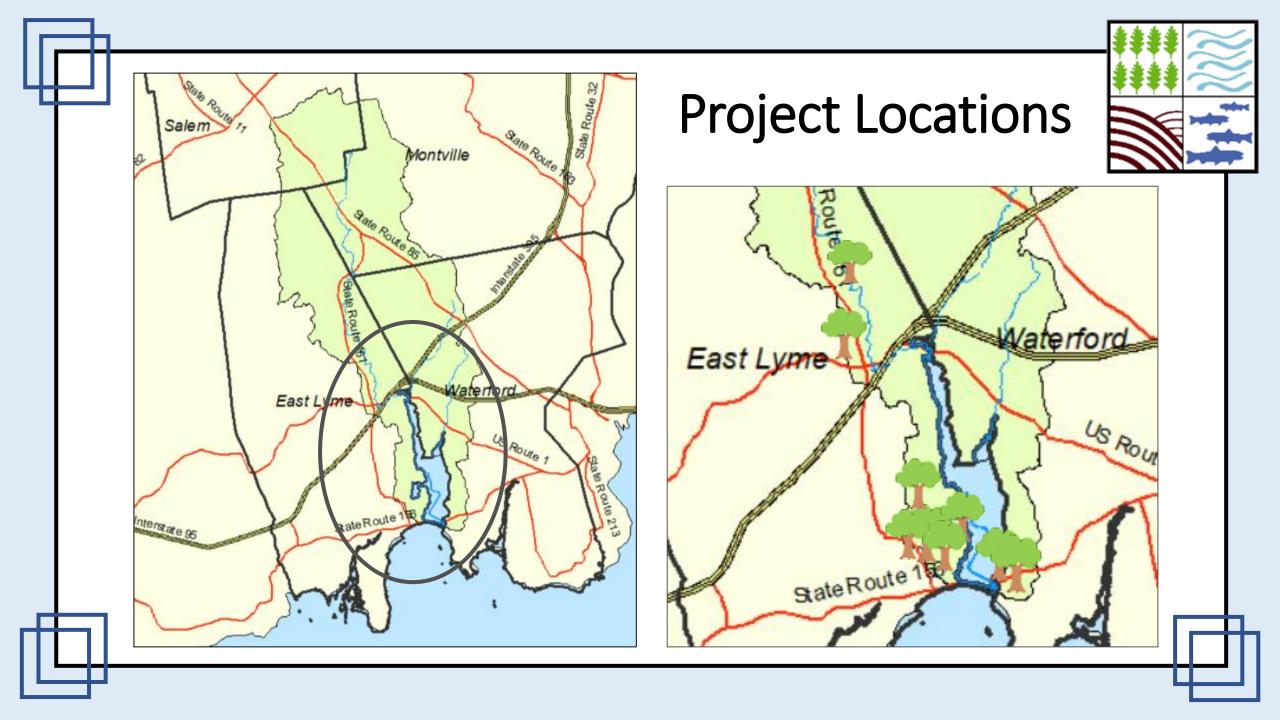




Reduce Nutrient and Bacteria Loads







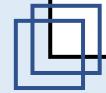




2012 - Clark Pond Riparian Buffer, East Lyme

- Town of East Lyme Recreation Department
- Town of East Lyme DPW
- Friends of Oswegatchie Hills Nature Preserve
- Dominion Power Environmental Stewardship Team
- Local volunteers



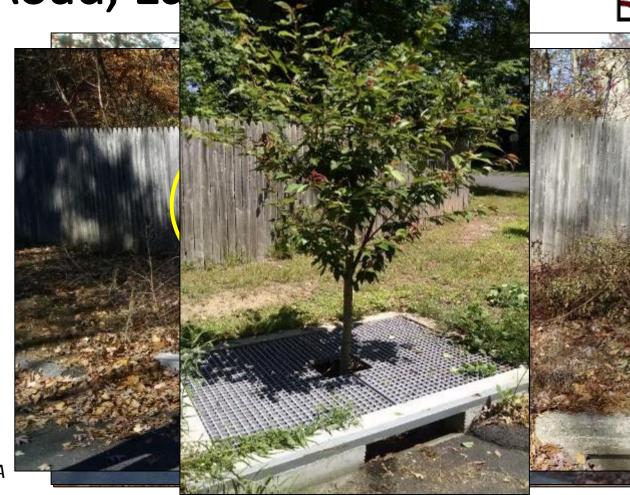




2012 - Colony Road, Ea

Partners:

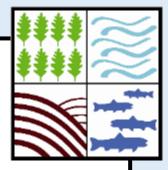
- Town of East Lyme
 Planning Department
- Town of East Lyme
 Department of Public
 Works



Funded in part by CT DEEP through a CWA Section 319 NPS grant.

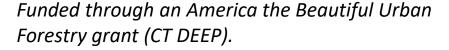


2014 - Mago Point Riparian Buffer, Waterford



- Town of Waterford Recreation Department
- Town of Waterford Planning Department
- University of CT Marine Science Department
- Dominion Power Millstone
 Environmental Stewardship Team
- Local volunteers









2015 - Tree Filter Two Zone Project:

Pennsylvania Avenue, Ea

Partners:

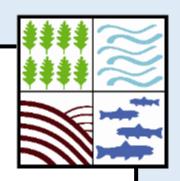
- Town of East Lyme
 Planning Department
- Town of East Lyme
 Department of Public
 Works

Funded in part by CT DEEP through a CWA Section 319 NPS grant and a CT Office of Policy and Management Small Town Economic Assistance Program (STEAP) grant.





2016 - Tree Filter Two Zone Project: Mago Point, Waterford

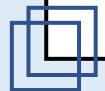


Partners:

- Town of Waterford Planning Department
- CT DEEP Boating Division
- CT DEEP Land Acquisition and Management Division

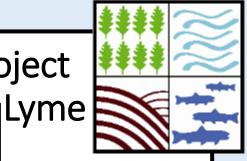


Funded in part by CT DEEP through a CWA Section 319 NPS grant and a CT Office of Policy and Management Small Town Economic Assistance Program (STEAP) grant.





2017-2018 - Grand Street Stormwater Improvement Project





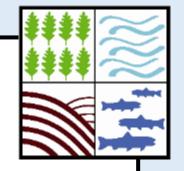
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Tree Wells Dry Wells









2018 - East Lyme High School Rain Garden

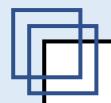
Partners:

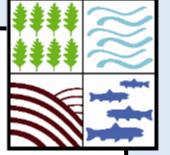
- East Lyme School Department
- East Lyme DPW
- Dominion Power
 Millstone Environmental
 Stewardship Team



Funded through a grant from Dominion Energy Charitable Foundation Environmental Stewardship grant.







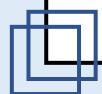
2018 - LISFF 100 Rain Gardens/100 Rain Barrels

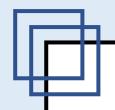
Partners:

- Town of East Lyme DPW & Recreation Departments
- Friends of Oswegatchie Hills
 Nature Preserve
- Boy Scouts of America
- Pine Grove Association
- Watershed residents
- The River Network
- Coca Cola America

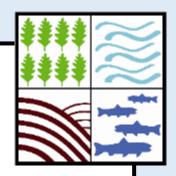


Funded in part through a National Fish & Wildlife Foundation Long Island Sound Futures Fund grant.



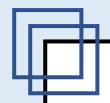


In the Works...

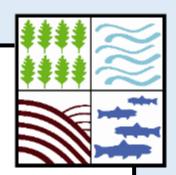








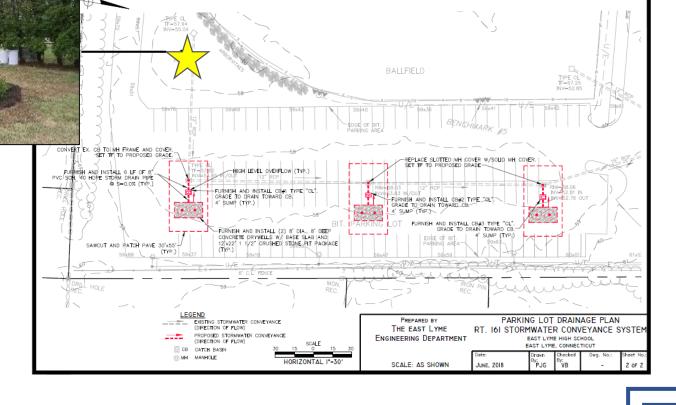




Project Partners:

East Lyme DPW

 East Lyme School Department





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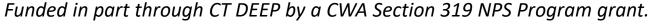


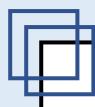
Niantic 4-Town Bio-infiltration Project - 2019

Project Partners:

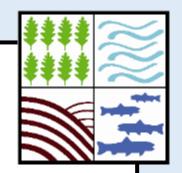
- East Lyme Planning Department & DPW
- Waterford Planning Department & DPW
- Montville Planning Department
- Salem Planning Department
- The River Network
- Coca Cola America







Niantic River Watershed Plan Update – 2018 - 2019



- Watershed towns/commissions
- Watershed residents
- Southeast CT Council of Governments
- Save the River-Save the Hills
- East Lyme Public Trust Foundation
- The Nature Conservancy
- CT DEEP
- USGS









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