

Natchaug Healthy Watershed Protection Plan

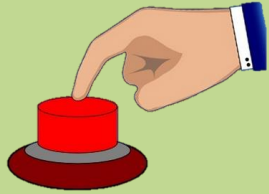
Story Board

Table of Contents



- [Introduction](#)
- [Recap of the Natchaug CAP](#)
- [Agriculture and Forests](#)
- [Riparian buffers and wildlife corridors](#)
- [Impervious Cover Stormwater Management](#)
- [Cold Water Stream Habitat](#)
- [Stream Continuity](#)
- [Hydrology](#)
- [Lakes and Ponds](#)
- [Wetlands and Floodplains](#)
- [Commercial/Industrial Development](#)
- [Residential Development](#)
- [Preserving and Enhancing Recreation Opportunities](#)
- [Open Space Planning](#)
- [Building a Stewardship Mentality](#)
- [What people are saying about the Natchaug Healthy Watershed Protection Plan](#)
- [Next Steps](#)
- [Project sponsorship](#)





See what happens when
you push the button.



[Click for voice narration](#)



[Next slide](#)



[Return to Table of Contents](#)



What is the Thames River Basin Partnership?

The Thames River Basin Partnership is a coalition of government agencies, non-profit organizations, educational institutions, industries, municipalities and individuals with a shared focus on natural resource conservation in the greater Thames watershed basin and adjoining coastal areas.

Benefits of participating in TRBP events

- Amplification of your organizations mission;
- Shared *Plan of Work* that overlaps with the goals of multiple organizations;
- Opportunities to develop collaboration on projects;
- Attend quarterly meetings featuring a guest presentation on a Plan of Work themed topic;
- Shared updates on Partner activities via social media postings and a quarterly newsletter, the Thames River Basin Partnership Partners in Action Report;
- Networking opportunities with conservation professionals in a casual setting;
- No membership fee.

Click [HERE](#) to be added to our email list





Thames River Basin Partnership

Our Mission



109 "likes"

125 "followers"

Are you one of them?

- Protect the region's agricultural and natural areas being threatened by land use changes.
- Protect ground and surface water quantity and quality being threatened and degraded by contamination.
- Protect the region's biodiversity.
- Improve the coastal zone resource conditions.

Please visit our website www.TRBP.org for additional partnership and watershed information.



Who are the Thames River Basin Partnership Partners?



Press the button



And this is how we have floated...



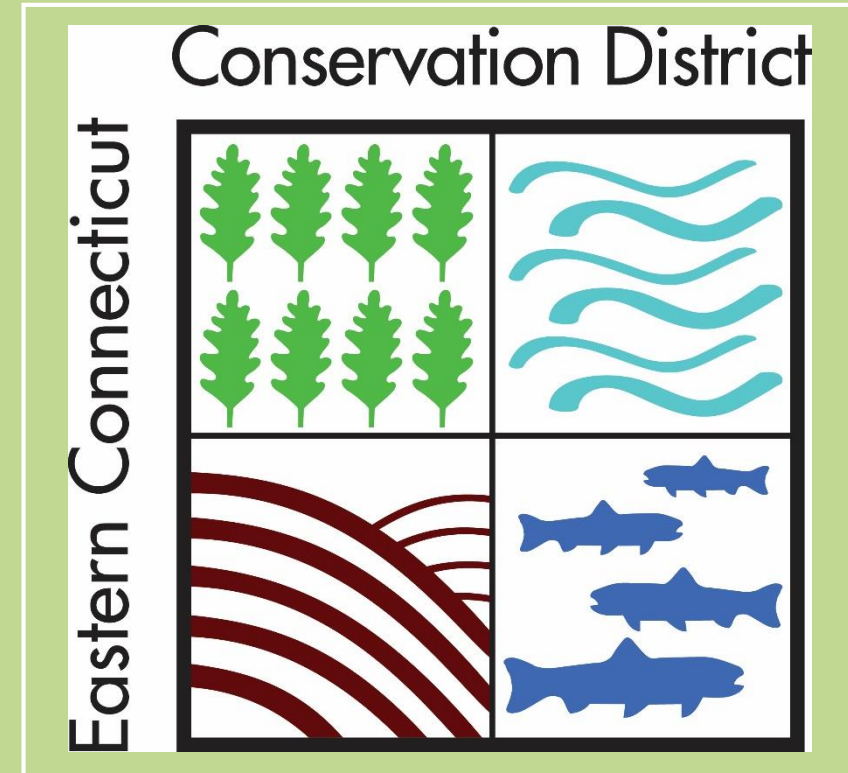
And in 2020, we are floating in cyberspace...



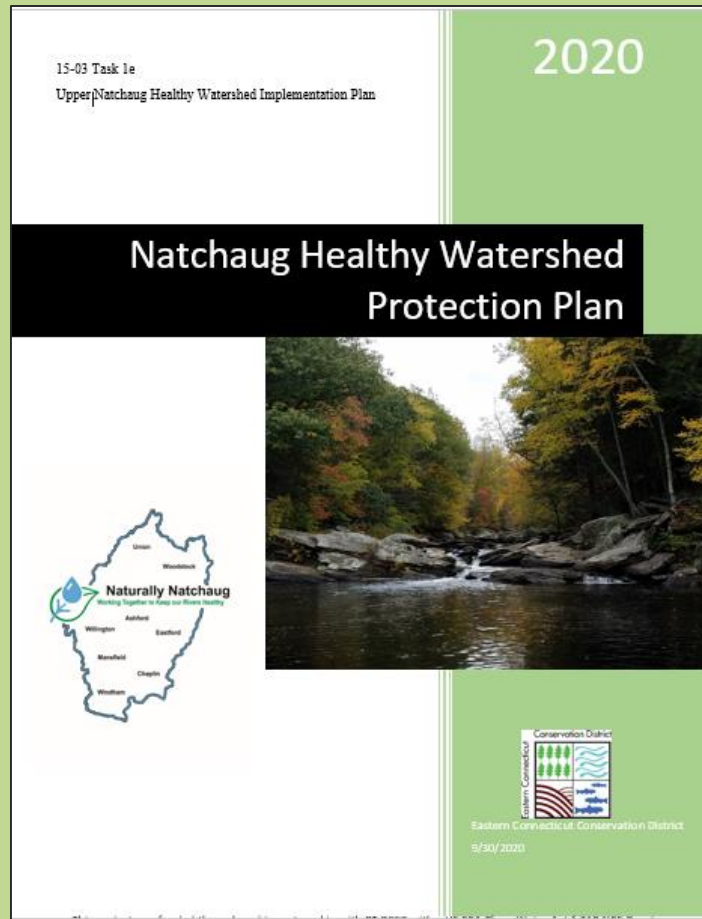
Background image found on <https://wallpapersafari.com/w/uyhepl>



The TRBP Coordinator is funded through a cooperative agreement between these two Partners.



TRBP FW 2020 Focus is on the Natchaug Healthy Watershed Protection Plan



- Collaborative effort by ECCD, DEEP, the eight towns in the Natchaug River watershed, multiple other stakeholders and conservation partners.
- Introduction to a Natchaug Healthy Watershed Storyboard project featuring links to conversations with conservation professionals and stakeholders on the importance of maintaining the healthy qualities of Connecticut's largest surface drinking water watershed area.

Will link to final plan once it is finalized and approved by DEEP.



Re-CAP of the Natchaug CAP

Natchaug Conservation Action Plan



Photo Courtesy H. Drinkuth

April 2011 signing of the Natchaug Conservation Compact by the CEOs of the 8 towns in the watershed

[Natchaug Conservation Action Plan Video](#) by John Meyer 5 minutes

...Therefore, the towns of the Natchaug River Basin enter into this voluntary compact that

- acknowledges their commitment to work cooperatively to balance conservation and growth by:
 1. Protecting and restoring the natural resources of the watershed;
 2. Reviewing land use regulations and municipal practices and adapting them to be compatible with the goals of this conservation compact;
 3. Supporting efforts to link and maintain ecologically viable habitats and rural landscapes; and
 4. Ensuring the long-term environmental health, vitality and security of the watershed to enhance the social and economic strength of our communities.



The Natchaug Healthy Watershed Plan

An ECCD and CT DEEP Collaboration



Natchaug River Watershed: Development of a Protection Plan

17 minutes



Natchaug Healthy Watershed Implementation Plan (draft)

1 hour 40 minutes



Agriculture in the Natchaug Watershed small but potentially impactful part of the Natchaug watershed.

- [USDA Natural Resource Conservation Service Cost Share Programs for Environmental Quality, Forest and Wetland conservation.](#)
- [USDA-NRCS Connecticut: Horsebarn Hill formation and soil properties](#)
- [Explore the Science of Soil Health](#)
- [Small Farm Manure Management - llamas](#)
- [Good Horsekeeping](#)

Agriculture and Forestry

Forests and Woodlots make up 74% of the Natchaug watershed.

[Forest help maintain good water quality and can make us healthier.](#)

- [Forest Management for forests > 25 acres](#)
- [Woodland Management for backyard woods](#)

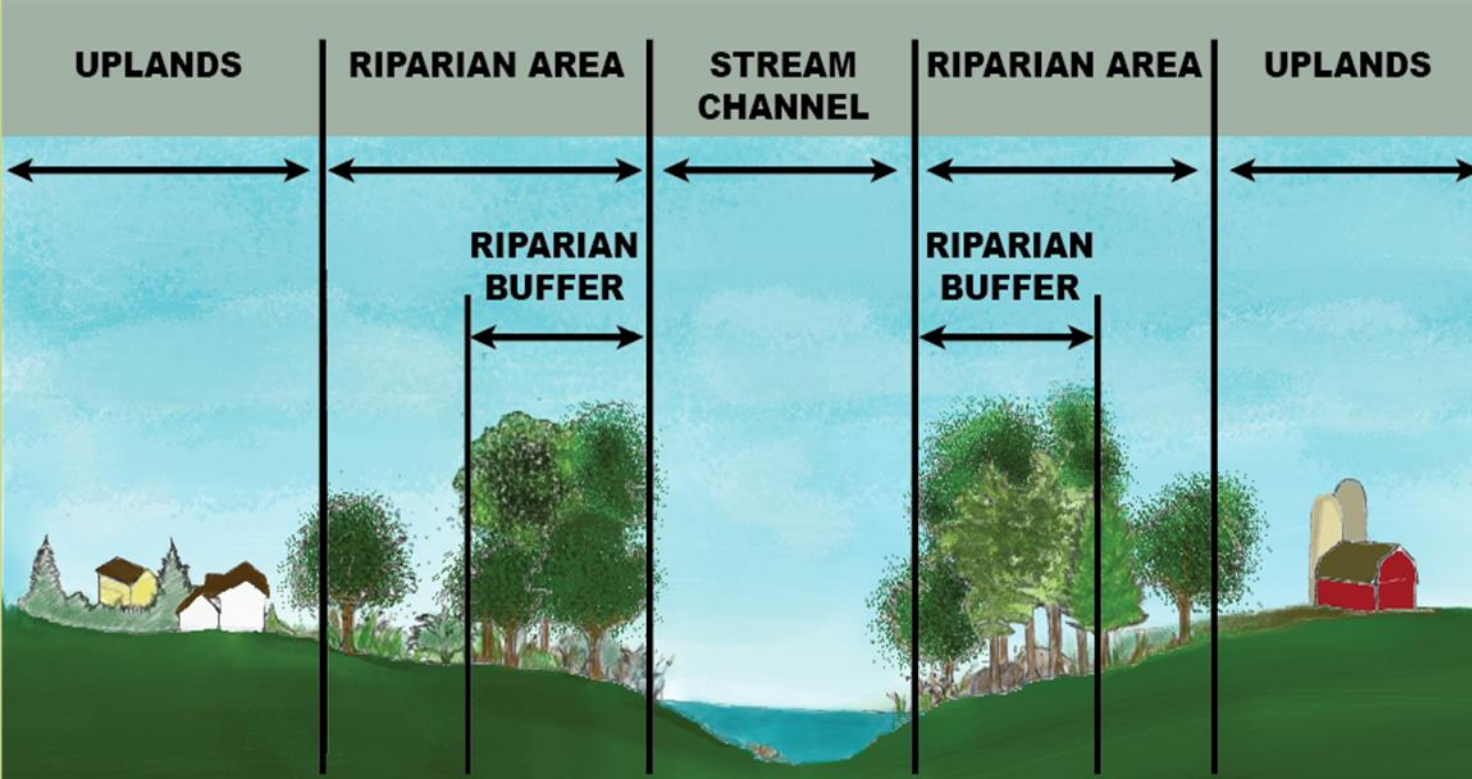


push the button.



push the button.





The Land Along the Shoreline, Why is it So Significant in a Healthy Watershed?



- [Riparian Buffers and their Importance in Connecticut](#) presented by Juliana Barrett of CT Sea Grant (29 min)
- [Citizens of the Riparian](#) video clips by P. Smith (35 min)

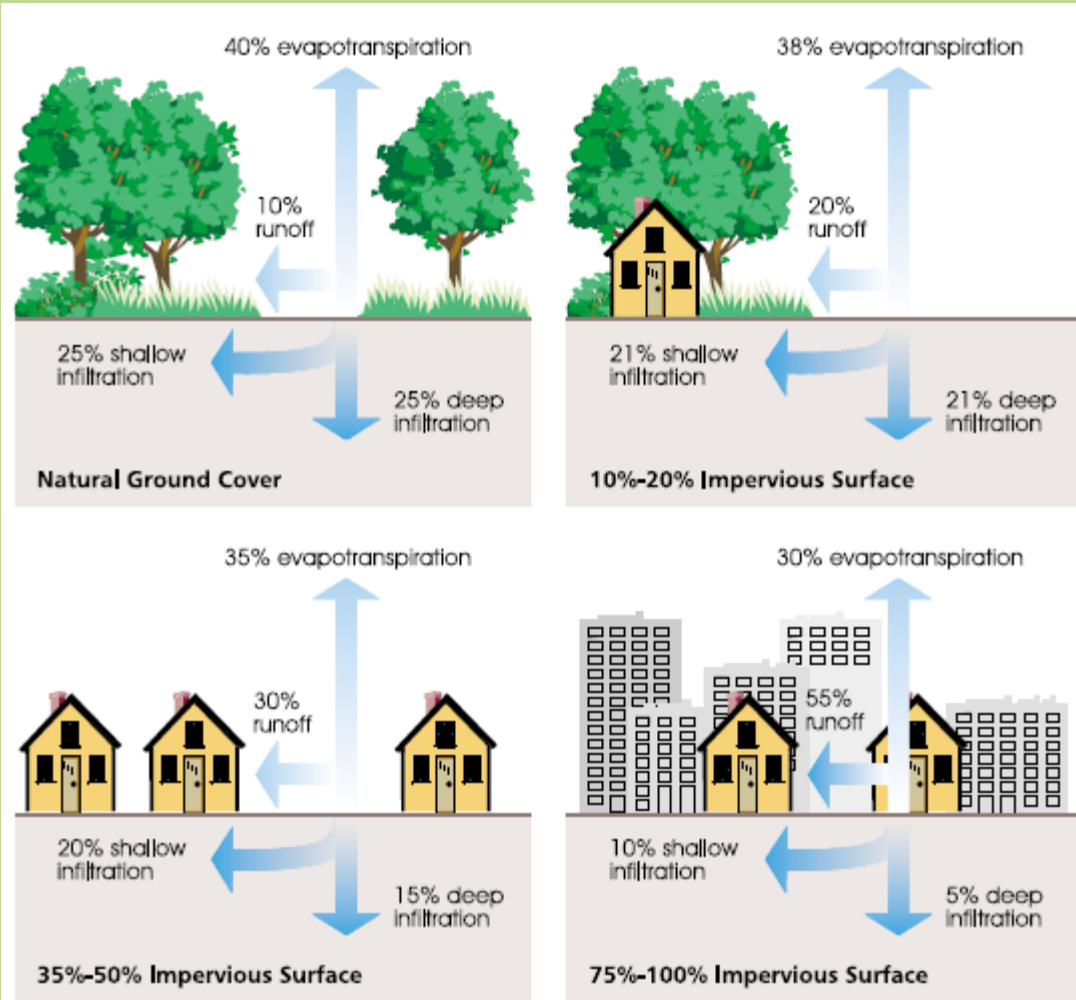
Additional Resources

- [Large Woody Debris](#) Fact Sheet
- [CT DEEP Fisheries Position Statement on Utilization to use 100 foot Buffer Zones](#)





Impervious Cover and its Impact on Water Quantity and Quality



- Mike Dietz, LID/Green Infrastructure tour at UCONN
 - [Low Impact development 101](#)
 - [Green Roof](#)
 - [Pervious Asphalt](#)
 - [Pervious Concrete](#)
 - [Rain Garden](#)

Image courtesy of CT DEEP



Cold Water Stream Habitat and Volunteer Water Quality Monitoring Initiatives

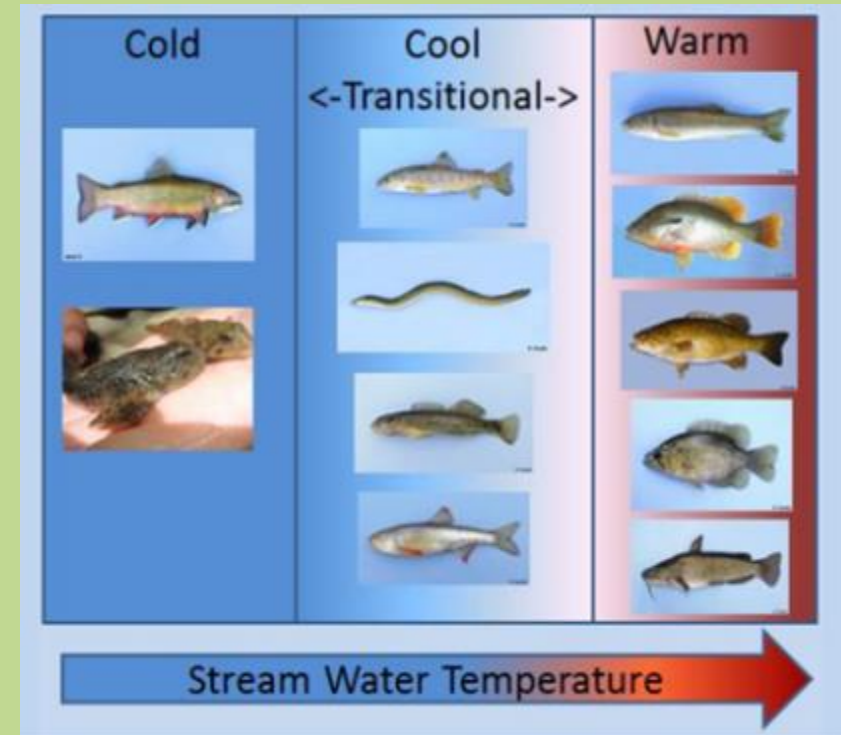


Intro to Cold Water Stream Habitat

- Link to Chris Bellucci [Cold Water Stream Habitat workshop](#)

TLGV Volunteer Water Monitoring Program

- [Riffle Bioassessments for Volunteers demo](#)
- [Temperature data loggers](#)



Stream Continuity:

Because Connected Habitat Counts

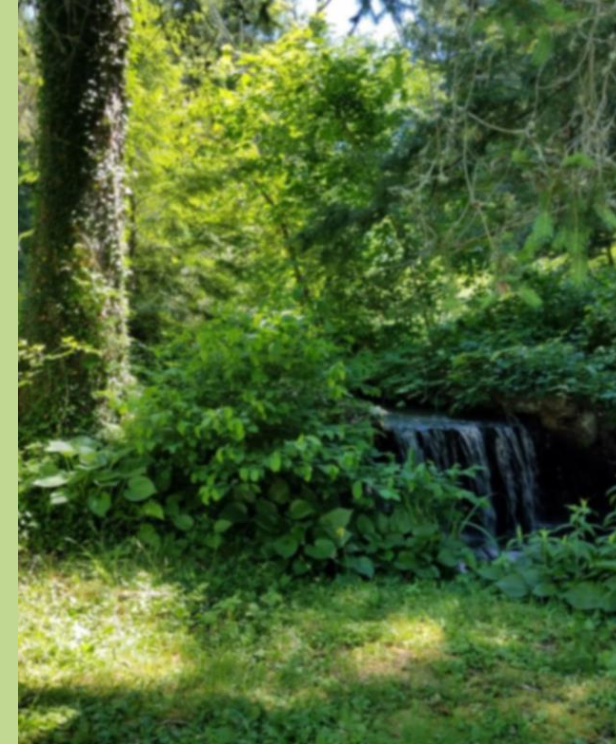


Road Crossing Culverts



- [Inland Fisheries Division Habitat Conservation and Enhancement Program Stream Crossing Guidelines](#)

Dams



- [Removal of Small Dams in Connecticut and Rhode Island: A Basic Guide to Project Managers](#)



Hydrology



- [A Conversation with Jon Morrison of USGS](#)
- [USGS Current Conditions for Connecticut Streamflow](#)
- [Connecticut Stream Flow Classifications](#)
- [Connecticut Drought Information Center](#)

Groundwater



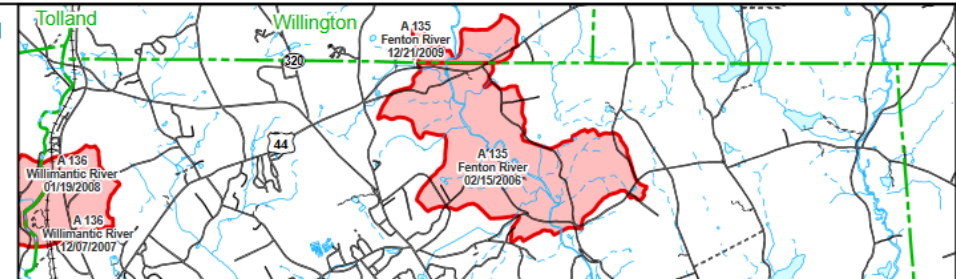
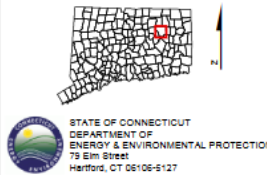
AQUIFER PROTECTION AREAS

Mansfield, CT
August 26, 2019

- Level A APA (Final Adopted)
- Level A APA (Final)
- Level B APA (Preliminary)
- Town Boundary

NOTE: The Aquifer Protection Areas were delineated through Connecticut's Level A and Level B Mapping Processes. Aquifer Protection Areas are delineated for active public water supply wells in stratified drift that serve more than 1000 people, in accordance with Sections 22a-354c and 22a-354z of the Connecticut General Statutes. Level B Mapping delineates a preliminary aquifer protection area, providing an estimate of the land area from which the well draws its water. Level A Mapping delineates the final Aquifer Protection Area, which becomes the regulatory boundary for land use controls designed to protect the well from contamination. As Level A Mapping is completed for each well field and approved by DEEP, it replaces the Level B Mapping. Final Adopted Level A Areas are those where towns have land use regulations for them. Massachusetts and Rhode Island Wellhead Protection Areas may be shown for informational purposes.

QUESTIONS:
Bureau of Water Protection and Land Reuse
Planning and Standards Division
Phone: (860) 424-3020
www.ct.gov/deep/aquiferprotection



Fenton River wellfield management

A conversation with UCONN

[Part 1](#)

[Part 2](#)

[Part 3](#)

[Part 4](#)



Lakes and Ponds



Resources for Lakes and Ponds

- [Shoreline Management Guide to Shoreline Stabilization and Vegetated Buffer Zones](#)
- [Your Lake and You: Simple, Concrete Steps You Can Take in Your Home, Yard and Community to Protect Your Lake](#)
- [Caring for Our Lakes](#)
- See [Residential BMPs](#) for more tips.
- [Locate a public boat launch in the Natchaug watershed](#)

[Spotlight on Mansfield Hollow Lake, a Different Kind of Lake.](#)



Image courtesy of US Army Corp of Engineers



Wetlands and Floodplains



Wetlands Tutorial Series

produced by the CT DEEP

- [Wetlands functions and values](#)
- [Wetlands Hydrology](#)
- [Wetlands Ecology](#)
- [Wetlands and Landuse](#)

- [What is a floodplain?](#)

Produced by The Nature Conservancy



Video of the 2005 [Natchaug River Flood](#)



Commercial/Industrial Development BMPs



[Connecticut Stormwater Quality Manual](#)

[Connecticut Stormwater Quality Manual Low Impact Development Appendix](#)

[Connecticut Soil Erosion and Sediment Control Manual](#)

[Connecticut Soil Erosion and Sediment Control Low Impact Development Appendix](#)

Commercial Rental Apartments

- [Dumpster management](#)
- [Dumpster Etiquette](#) brochure
- [Storm drain inserts](#)
- [Pet Waste Stations](#)
- [Pet Waste](#) brochure



Residential Development BMPs



Best Management Practices for Residential Property Owners

- [What is an Alternative Lawn?](#)
- [Septic Systems care and Maintenance](#)
- [Private well water quality testing](#)
- [Low impact development/ rain gardens](#)
- [Pet waste management](#)



Join the Pollinator Pathway Initiative

- [Woodstock Conservation Commission](#)
- [Town of Windham](#)



Preserving and Enhancing Recreational Opportunities in the Watershed



[White Water Paddling in Chaplin, Ct](#)
video courtesy of William Archambeault



Photo courtesy of Peppertree Campground

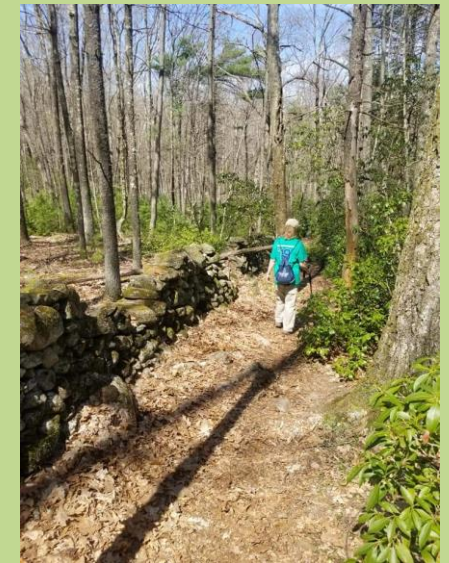
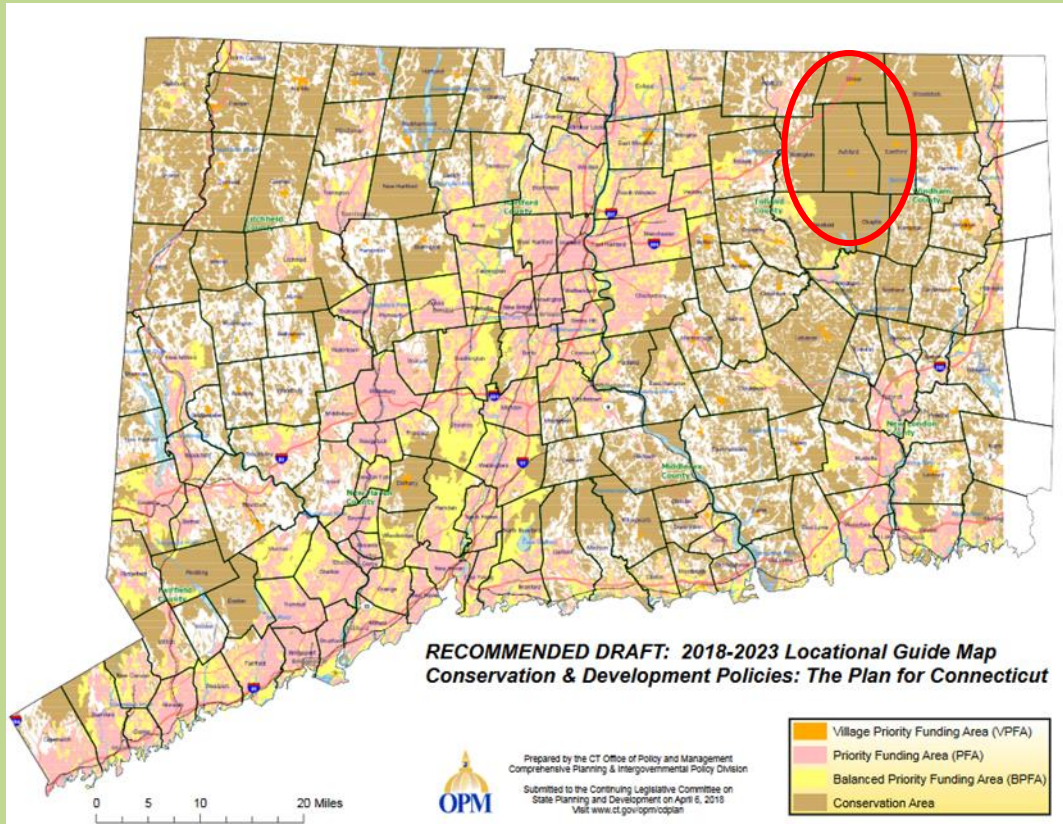


Photo courtesy of Bob Adams





Focusing on what we need to protect



In the Natchaug Healthy Watershed Protection Plan, the need for a Regional Open Space Prioritization Plan is a priority, working with [local land trusts](#) and municipal open space groups.

The Connecticut Statewide Plan of Conservation and Development Identifies the Natchaug Watershed as a Conservation Area



Building a stewardship mentality



- Continued and increased public access –
 - boat launches
 - trails
- Growing a Pollinator Pathway
- Continued Educational Programming for:
 - Municipal Officials
 - Residents
 - Visitors

Building with intent for preserving the healthy Natchaug watershed

[Municipal Land Use Checklist for Compatibility with the Natchaug Watershed Protection Implementation Plan](#)



What Some of the Participants and “End Users” Are Saying about the Natchaug Healthy Watershed Protection Plan. (Images are hyperlinked to video)



Next Steps



Request the eight towns of the watershed, Ashford, Chaplin, Eastford, Mansfield, Union, Willington, Windham and Woodstock Connecticut to sign an agreement to support the Natchaug Healthy Watershed Plan.

With support from the eight towns and other stakeholders, develop a Natchaug Healthy Watershed Implementation Plan Advisory Committee that will meet and review progress on the plan recommendations.

With committee members and other active stakeholders, develop workgroups to focus on specific topics recommended in the Natchaug Healthy Watershed Plan including but not limited to:

Education and outreach
Agriculture outreach

Municipal training
Forest program outreach

Stream Continuity Studies
Building with intent to protect watershed health





Storyboard Project Sponsors

- This project was supported in part by and in partnership with the CT DEEP with funding from a US EPA Clean Water Act § 319 Non-Point Source grant.
- The Thames River Basin Partnership Coordinator is supported in part by The Last Green Valley.

List of credits

Produced by the Eastern Connecticut Conservation District

Directed by Jean Pillo, Watershed Conservation Program Manager for ECCD

More information about the Natchaug Healthy Watershed Protection Plan is available at www.ConserveCT.org/eastern

