



Connecticut Department of Energy and Environmental Protection



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**

Proposed MS4 Reissuance Informational Meeting



Rain Happens!

August 6, 2014
Christopher Stone
DEEP Stormwater Section



Connecticut Department of Energy and Environmental Protection

CT STORMWATER PROGRAM

Stormwater Issues in Connecticut



Impervious cover (urban areas)



Known for runoff pollution



Long Island Sound



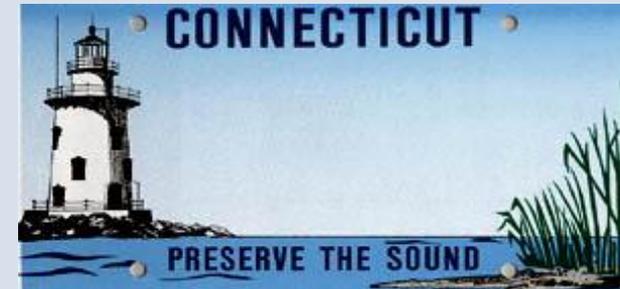
Impaired Waters



Phosphorus/Nitrogen

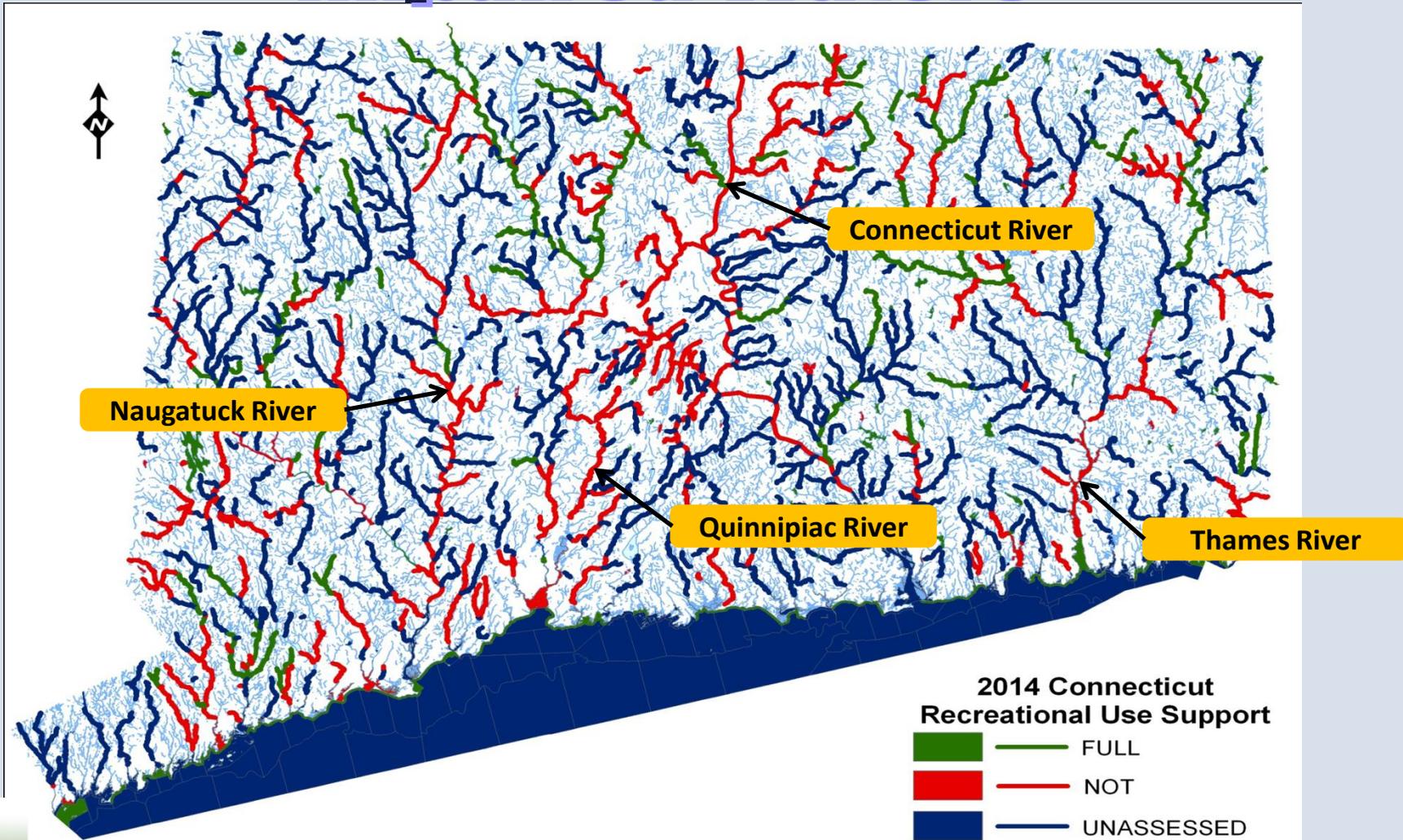


Bacteria



CT STORMWATER PROGRAM

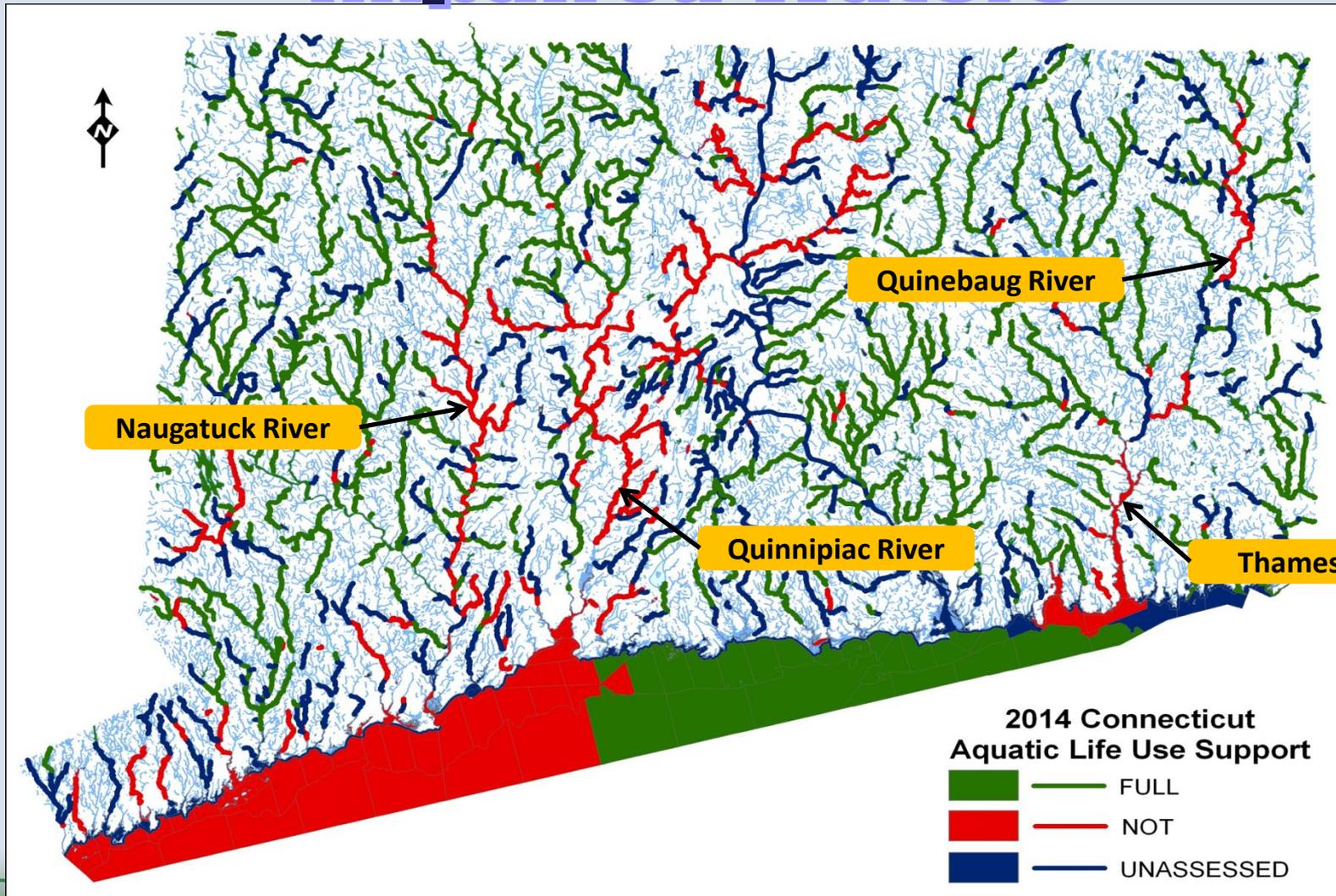
Impaired Waters



Connecticut Department of Energy and Environmental Protection

CT STORMWATER PROGRAM

Impaired Waters



Connecticut Department of Energy and Environmental Protection



CT STORMWATER PROGRAM

How is Stormwater Regulated?



Clean Water Act Mandate



EPA Developed Model



CTDEEP Implements Program



Industrial general permit



Construction general permit



Commercial general permit



MS4 general permit



CT STORMWATER PROGRAM MS4 General Permit Where are we today?



Current general permit 1/9/04



Expired 1/8/09



Extended "as-is" since



Limited Compliance



<25% in full compliance



Need more guidance



CT STORMWATER PROGRAM

How do we update the permit?



Model to Update Permit



Start with current GP



Review EPA, MA, NH, NY, NJ



Primary Issues to Address



Impaired waters



Illicit discharges



More detail



CT STORMWATER PROGRAM

Who is Covered?



2000 Census



130 Towns in Urban Areas



113 Towns in permit



2010 Census



138 Towns in UAs

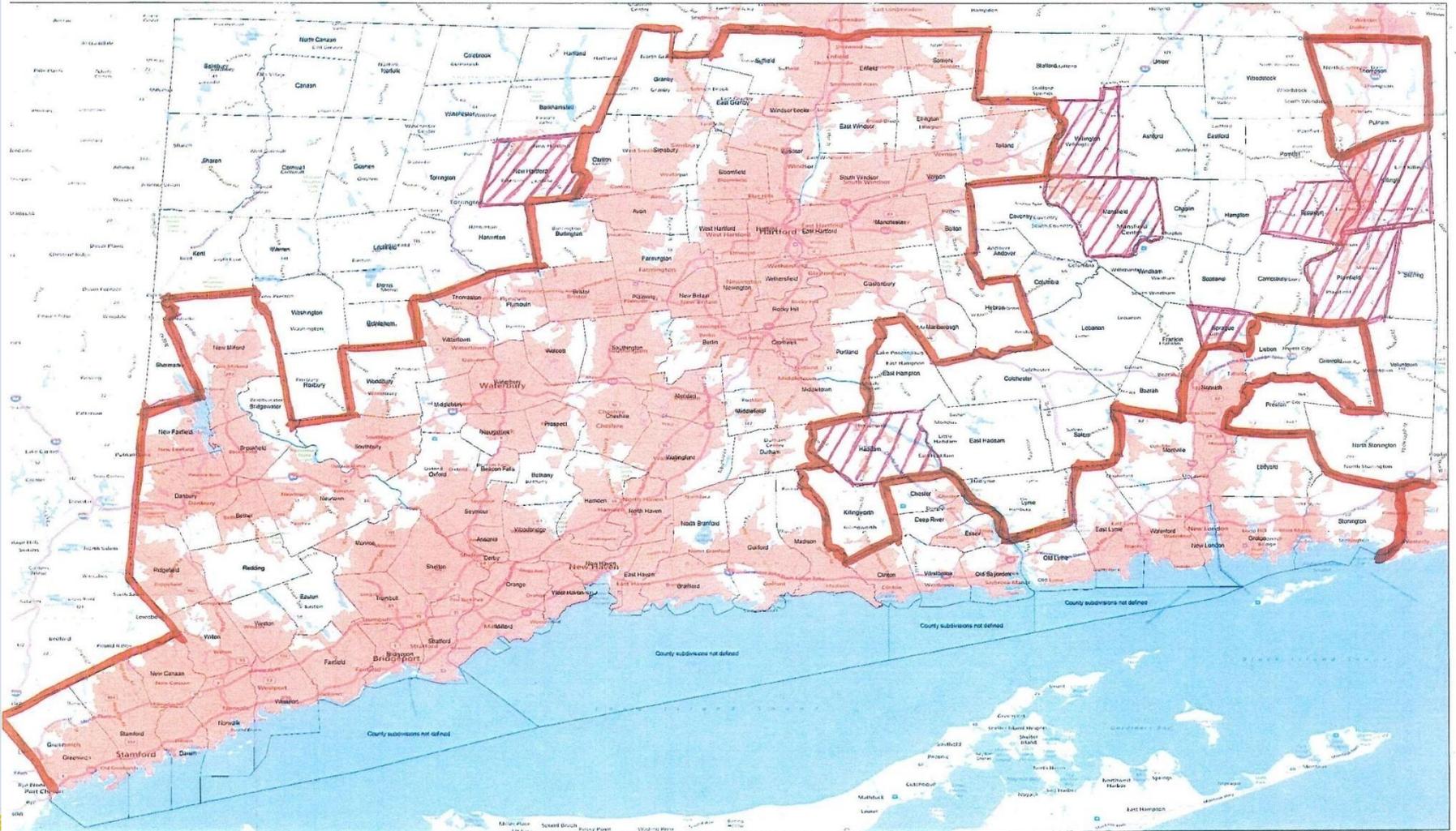


??? MS4s in permit



CT STORMWATER PROGRAM

Connecticut 2010 Urbanized Area



2010 Urbanized Area
Town Boundary

0 10 20 40 Miles

A scale bar showing distances from 0 to 40 miles. To the right of the scale bar is a north arrow with 'N' at the top, 'S' at the bottom, 'W' on the left, and 'E' on the right.

Urbanized Areas: US Census Bureau (2010)
Map © 2009 Microsoft Corporation and its data suppliers

CT STORMWATER PROGRAM

Small MS4 Designation



Current Permit



Only covers munis



No institutions



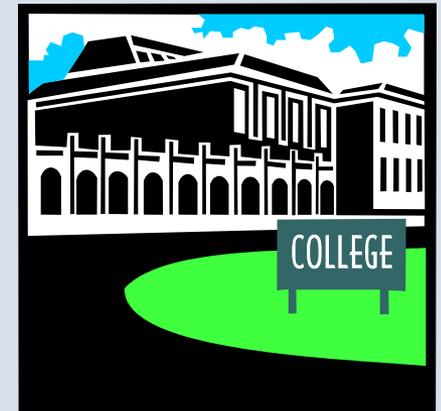
Proposed Permit



UA munis & public institutions
- Tier I



Non-UA towns - Tier II

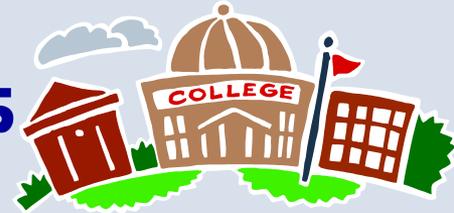


CT STORMWATER PROGRAM

Why Two Tiers?



EPA Requires Institutions



May have large drainage system



Similar to municipalities



Allows coverage for all munis



New Jersey model



Addresses inconsistencies



CT STORMWATER PROGRAM

DEEP Stormwater Program



Recent Permitting Issues



Registration req'ts/timeline



Public availability & comment



Impaired waters



Smart Growth/Green Infrastructure



CT STORMWATER PROGRAM

Current MS4 Requirements



Six Minimum Control Measures:

1



Public education and outreach

2



Public participation

3



Illicit discharge detect/eliminate

4



Construction site runoff control

5



Post-construction SW mgmt

6



Pollution prev./good housekeeping



CT STORMWATER PROGRAM

Proposed Tier I Requirements



Permit Changes (much more detail)



Impaired waters

- nutrients/bacteria/mercury
- measures in each category



Illicit discharge detect/eliminate

- In-depth methodology



Post-construction SW mgmt

- Runoff performance standards



Modified sampling program



CT STORMWATER PROGRAM

Proposed Tier I Requirements



Public Education & Outreach



More detail on what/how



Added guidance for impaired



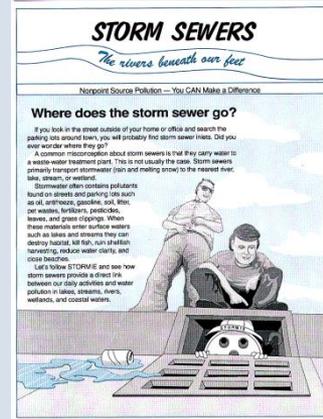
Public Involvement/Participation



Detail on Plan availability



Requires annual public meeting



CT STORMWATER PROGRAM

Proposed Tier I Requirements



Illicit Discharge Detect/Eliminate



Continues previous req'ts

- mapping outfalls
- develop ordinance



Much more detail

- new appendix with methodology
- timeline/coverage based on pop.
- necessary legal authorities
- priority to impaired waters



CT STORMWATER PROGRAM

Proposed Tier I Requirements



Construction Runoff Control



More detail on land-use regs

- Guidelines, SW Quality Manual
- inspect/inventory detent basins
- long-term maintenance req'ts



Interdepartmental coordination



Site review & inspections



CGP Notification



CT STORMWATER PROGRAM

Proposed Tier I Requirements



Post-Construction Stormwater Mgmt



Eliminate barriers to LID in regs



Allow/req LID in land-use regs



Implement runoff standard



Estimate impervious cover



SW structure maintenance plan



CT STORMWATER PROGRAM

Proposed Tier I Requirements

Pollution Prevention/Housekeeping



Employee training – more detail

Infrastructure repair/rehab

Property/operations maintenance

- parks/parking/open space

- pet waste/waterfowl mgmt

- buildings/vehicle/equipment

- snow management

- streets/catch basins/leaves

- added measures for impaired



CT STORMWATER PROGRAM

Proposed Tier I Requirements



Stormwater Monitoring



In-stream monitoring

- location & number based on pop.
- dry weather – years 1 & 2
- wet weather – years 3, 4, 5



Outfall monitoring

- number/year based on pop.
- different outfalls each year
- order prioritized



CT STORMWATER PROGRAM

Proposed Tier II Requirements



Fewer Requirements than Tier I



Mostly administrative

- Develop legal authorities



No mapping or IDDE tracking



Update construction regs



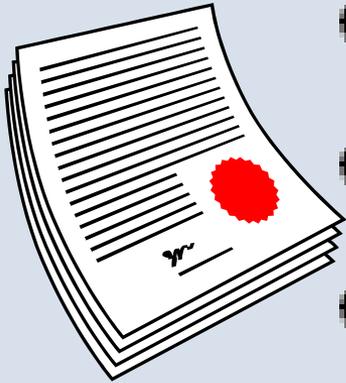
Include LID in post-const regs



Basic Pollut. Prev./Good Hskpg



No monitoring program



CT STORMWATER PROGRAM

Additional Proposed Requirements



Discharges to Impaired Waters



Added controls in 6 Min. Meas.



Any added measures in TMDL



Sample indicator pollutant

Annual Report



Same annual fee (\$187.50)



More detail & timelines



CT STORMWATER PROGRAM

Financing Options



Finance through general fund



Need to reallocate expenses



May need additional revenue



Subject to "raiding"



Still may not be adequate



CT STORMWATER PROGRAM

Financing Options



Stormwater Utility



Dedicated funding stream



Stand-alone account



Typically <\$150/household/yr



Customize for your town



Most other states have it



CT STORMWATER PROGRAM

Financing Options



Regional Stormwater Coalition



Central Mass. Regional Coalition

- www.CentralMAStormwater.org



No new fees or added revenue



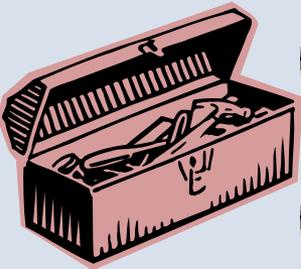
30 towns contribute



Each town keeps own program



Shared toolbox of resources



DEEP Stormwater Staff

Questions?

Nisha Patel (860)424-3840

nisha.patel@ct.gov

Chris Stone (860)424-3850

chris.stone@ct.gov



Connecticut Department of Energy and Environmental Protection