

# Connecticut Department of Energy and Environmental Protection











# Integration of Environmental Justice Concerns into 303(d) and Other CWA Programs in Connecticut

Presenter: Traci lott, CTDEEP National 303(d) & Data Meeting June 1, 2022



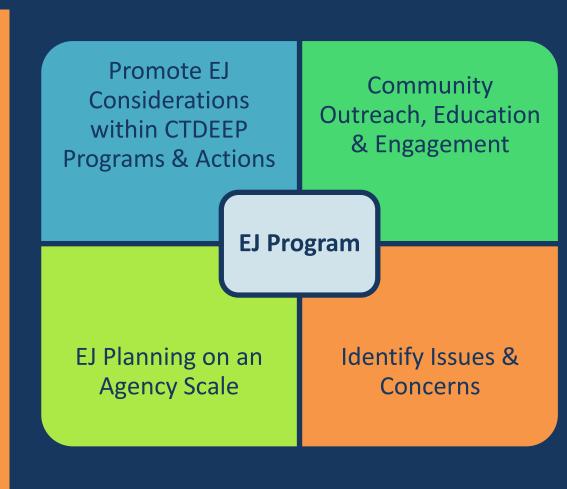
## **Presentation Topics**

- Describe CTDEEP Environmental Equity Program and Policy
- Identify approaches used in 303(d) Program to consider Environmental Justice
- Identify approaches used in other Water Quality-based Programs to consider Environmental Justice



# **Environmental Equity Program & Policy**

"...no segment of the population should, because of its racial or economic makeup, bear a disproportionate share of the risks and consequences of environmental pollution or be denied equal access to environmental benefits." CTDEEP's Environmental Equity Policy, 1993





# **CTDEEP Environmental Justice Program**

# Current Statewide Activities

- Development of a CT EJ Mapping Tool
- Establishing a
   Connecticut Equity and
   Environmental Justice
   Council





# Environmental Justice: CTDEEP 303(d) Program



Program **Planning** EJ In CT **TMDL Protection Plans** Development 303d **Other Restoration Plans** 

#### **Program Planning**

Enhanced process to identify where 303(d) water quality-based plans will be developed

 Extensive engagement within CTDEEP & with public & outside partners

Integrated Water Resource
 Management in CT (EPA 303(d)
 Program Vision) 2012-2022

 Included Consideration of Environmental Justice



#### Identifying Water For Plan Development



General Watershed Health

- Restoration
- Protection



Considered



Stormwater

- Restoration
- Protection

SIX RPS TOOL SCENARIOS
GENERATING SIX LISTS OF
WATERSHEDS



**Nutrients** 

- Restoration
  - Protection



Bacteria Impairments Current and Future (not tool based)

All impaired waters across entire state

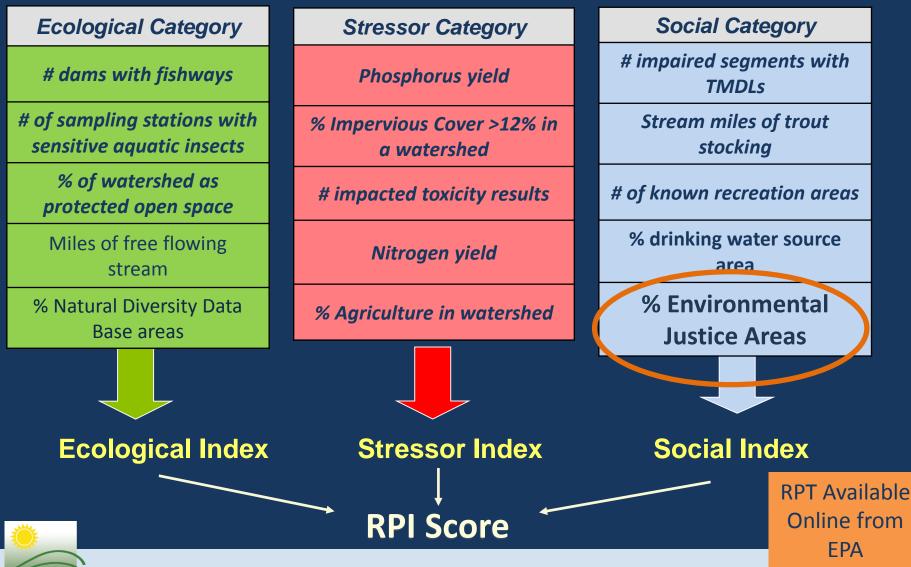


Estuaries and Embayments (not tool based)

Based on areas with community partners & on-going actions

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#### Recovery Potential Screening Tool: Example Indicators



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#### Considering EJ in TMDLs & Protection Plans

# Develop maps for new TMDLs or Protection Plans to show

- water quality conditions
- Key community landmarks such as schools, parks and roads
- Areas of EJ Concern
  - Distressed Municipalities
  - Low Income Area Census Blocks
  - Tribal Areas

Include Recommendations to Prioritize Implementation to Restore or Protect Water Quality within EJ areas

TMDLs are "Action Plans" that evaluate water quality conditions and sources, to establish a plan to restore or protect water quality based on State's Water **Quality Standards** 



#### **Environmental Justice**

Sawmill Brook Subregional Basin

#### Legend

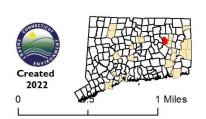
- Bacteria Monitoring Station
- School (3)
- State Park or Reserve Access (1)
- ----- Railroad
- --- Interstate
- US Route
- Town Boundary
- Marsh
- Waterbody

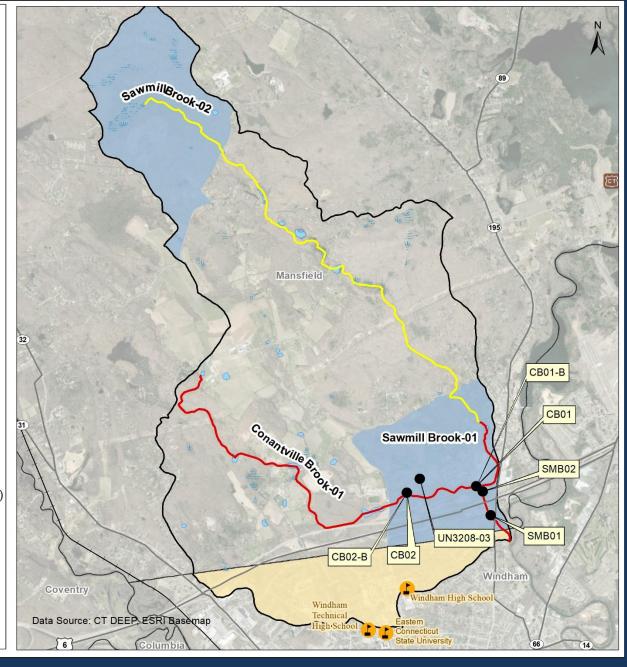
#### CT 2020 Recreation Assessment Rivers

- Insufficient Information; Not Assessed
- Not Supporting

#### **Distressed Municipality**

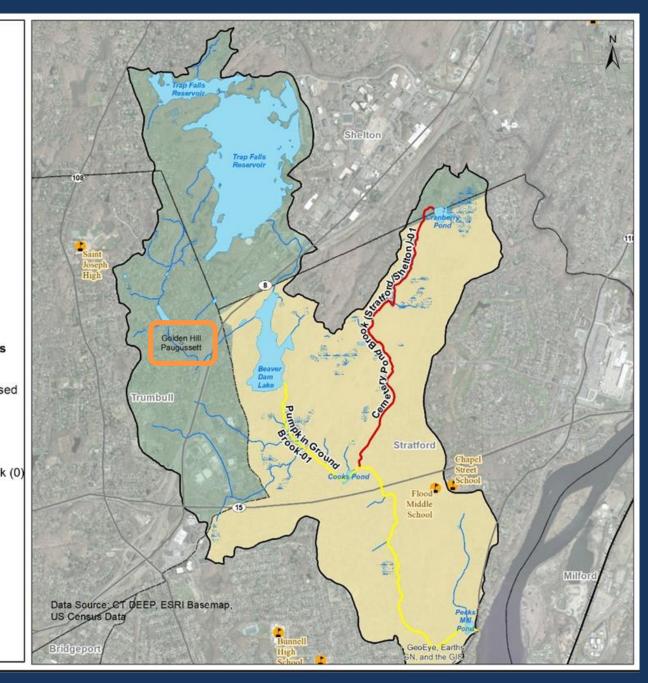
- Distressed Municipality (1)
- Low Income Areas by Census Block (2)





#### **Environmental Justice** Pumpkin Ground Brook Subregional Basin Legend School State Route - Railroad Town Boundary Marsh CT Unassessed Waterbody //// Tribal Land (1) CT Unassessed Stream Subregional Basin Study Area Pumpkin Ground Brook CT 2020 Recreation Assessment Rivers Recreation Insufficient Information; Not Assessed Not Supporting **Environmental Justice Communities** Distressed Municipalities (1) Low Income Areas by Census Block (0)

1 Miles



# 303(d) Alternative Restoration Plans

#### Remediation Program activities:

- 303(d) Program Staff set environmental goals
- Implement Water Quality Standards to address environmental quality and protect uses for Surface Water, Groundwater, Sediment & Erodible Soils

Address exposures to populations that may be more highly exposed for cultural or economic reasons

Fishing & Shell Fishing

**Sediment Contact** 

**Tribal Practices** 

Climate Change

Communication



#### Remediation: Contaminated Sediment

#### WARNING

PERTAINING TO THIS SECTION OF MILL RIVER

Sediments & Blue Crabs May Contain Lead

#### **Do Not Use Shoreline:**

- No Crabbing
- No Wading
- No Swimming
- Avoid Contact with Sediments
- No Powerboats

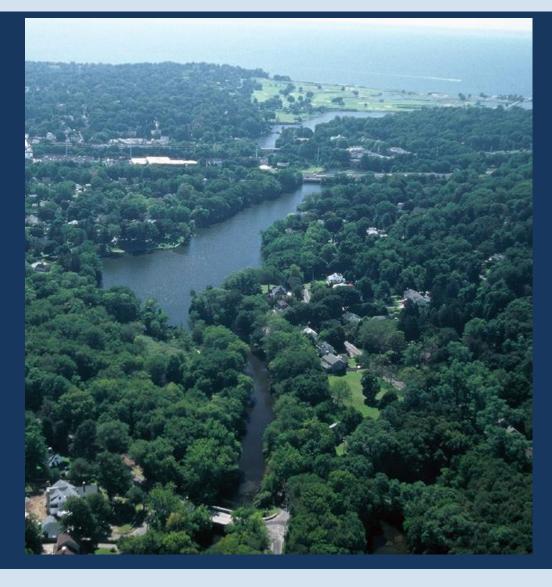
#### These Activities Are Safe

- Canoeing or Kayaking
- Fishing From Boats (finfish are not affected)
- Crabbing in Southport Harbor (this area is unaffected by lead)

For More Information Call: The Fairfield Health Department: 256-3020









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#### Setting Environmental Goals for the Mill River

Human Health Risk Assessment

Sediment & Surface Water

Fish & Shellfish Tissue

Children & Adults Fishing and Direct Contact Ecological Risk Assessment

Sediment & Surface Water

Plants, Aquatic Organisms, Birds & Mammals

Biological Assessments for Survival, Growth & Reproduction















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#### Risk-based Remedial Goals for Lead

Pre- Excavation	Area 4	Area 3	Area 2	Area 1	Area 5
Minimum	2	1	2.5	3	1
Maximum	1,300	3,200	170,000	3,600	6,200
Average	93	355	3,760	590	148

#### **Ecologically Based Remediation Goals:**

- Human Health Protection
  - 400 mg/kg
- Ecological Protection
  - Birds: 437 mg/kg
  - Aquatic Organisms: 220 mg/kg



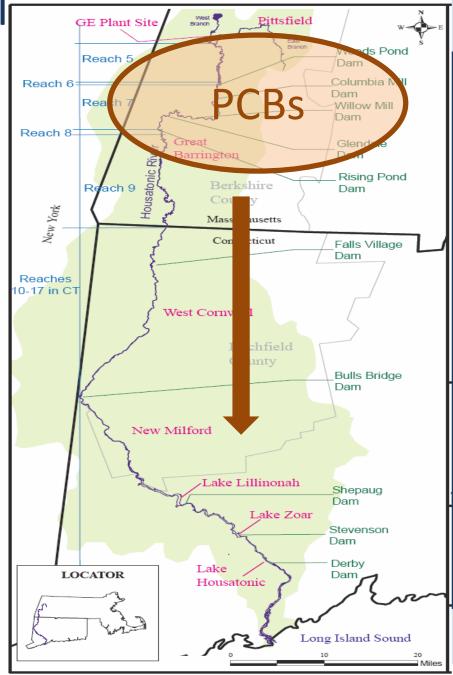


#### Housatonic River MA & CT

Reducing Transport: Critical to Achieving CT's Environmental Goals

- Contamination in CT comes from downstream transport of contaminants from areas in MA
- Remedy proposes to address contamination in MA
- River system is out of balance & dynamic, must consider need for future actions if transport targets are not met.

Goal: Substantial Reduction in downstream transport to meet WQS in CT



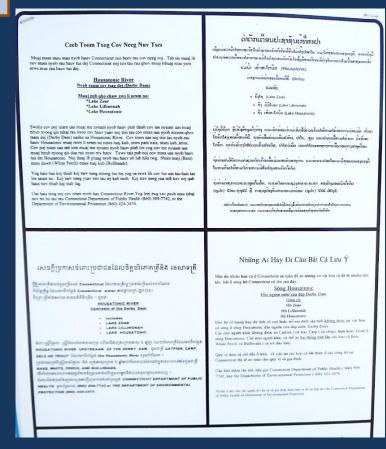
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#### Eliminate Impact on Future Generations

#### PCBs Move & Accumulate in Food Chain

- Fish have elevated levels of PCBs
  - Need advisories against eating fish from Housatonic River
  - Causes risks to birds and mammals that eat fish
  - Concern for people who don't follow advisories for cultural or economic reasons

Goal: Reduce fish contamination to remove risks to people and animals





# Considering Tribes in CT

 New Project underway to map/document CT waters that flow into and out from tribal areas in State



- Use information to better identify whether 303(d) project areas may be associated with water resources in tribal areas
- Hope to share with tribes in state for discussion and collaboration



# Environmental Justice: NonPoint Source Management Program & Long Island Sound Study



### CTDEEP: NonPoint Source Program

- Manages CWA 319 Grants
- Considers whether proposed grant projects support EJ communities, among other considerations
- Participates in Urban
   Waters Initiative
   Projects

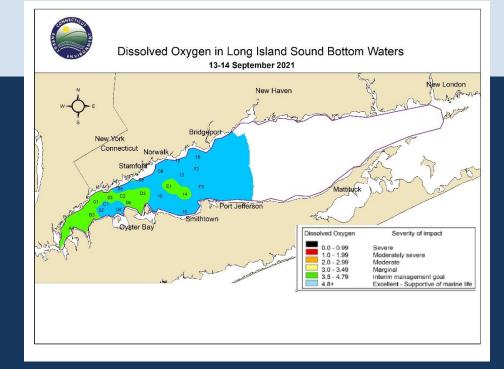


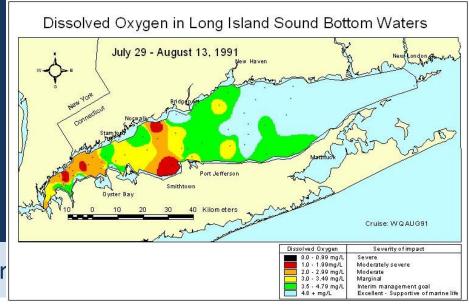




#### Long Island Sound Study

- LISS is a partnership between EPA, CT and NY to address hypoxia, nutrient loads, habitat restoration, public involvement & education and water quality monitoring
- LIS is part of the National Estuary Program







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## LISS: New EJ Workgroup

Provide a platform to support and promote the incorporation of environmental justice into LISS decision-making and implementation of all Management Plan goals.

- Environmental Justice Needs Assessment
- Establish Community Impact Fund
- Internal Assessment and Internal Conversations
- Training





#### LISS: Other Initiatives

The <u>Sustainable Resilient Communities</u>
<u>Workgroup</u> hired five extension
educators who are facilitating
opportunities for the diverse voices
within a community to be co-creatively
integrated for effective and sustainable
planning and implementation strategies
leading to more resilient communities
in the face of increasing impacts from
climate change.

CT DEEP is pursuing funding to initiate a plan and support to address language barriers with our state's fishing communities.





### **Monitoring & Assessment Program**

Evaluate existing
 monitoring network and
 sample locations to identify
 which may be located
 within EJ areas and identify
 EJ areas which should be
 prioritized for monitoring







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