

# How We Did It

Funding a Strategic Plan for Four Kettle Lakes

May 5th, 2018

NYSFOLA Conference



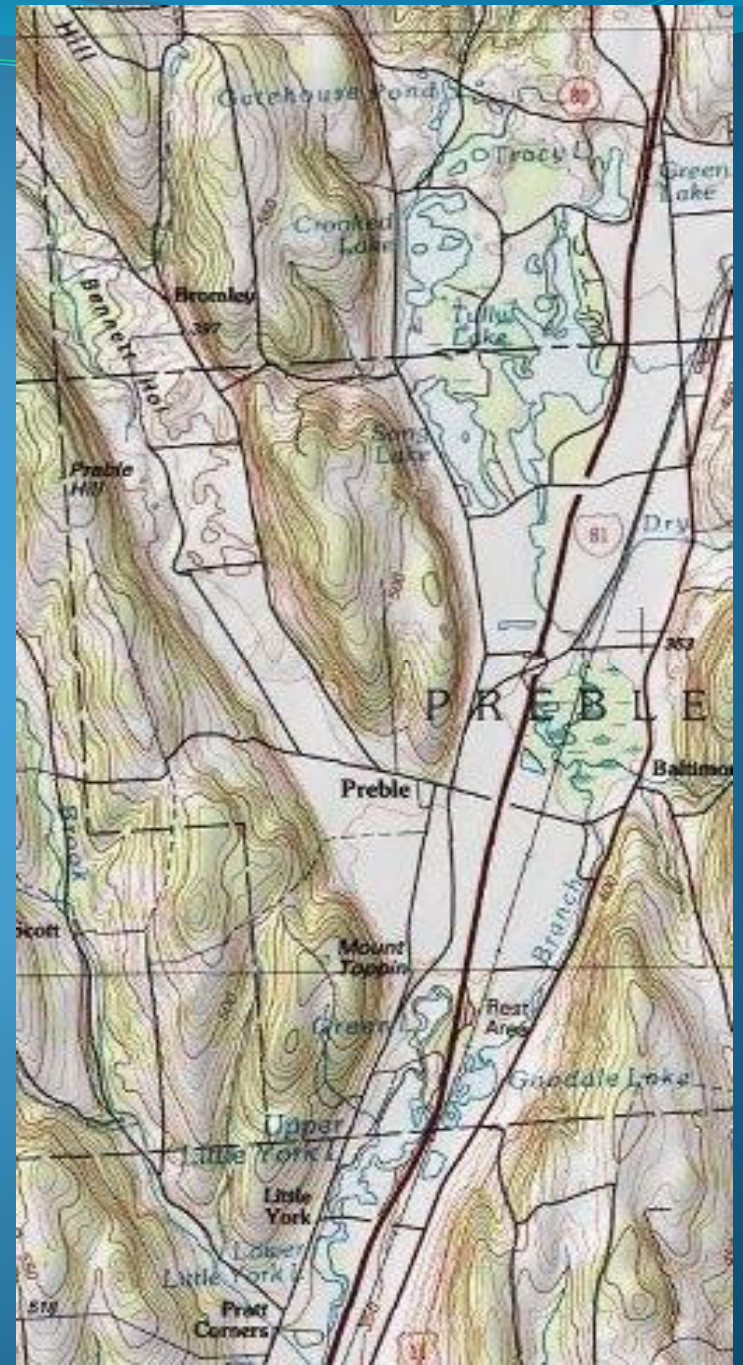
The Cortland-Onondaga Federation of Kettle Lake Associations, Inc.

# 20 Minute Plan

- Background of our Kettle Lakes
- Collaborations
- Description of Grants
- Benefits
- Where we go from here
- Your questions

# Four Kettle Lakes

[www.cofokla.org](http://www.cofokla.org)

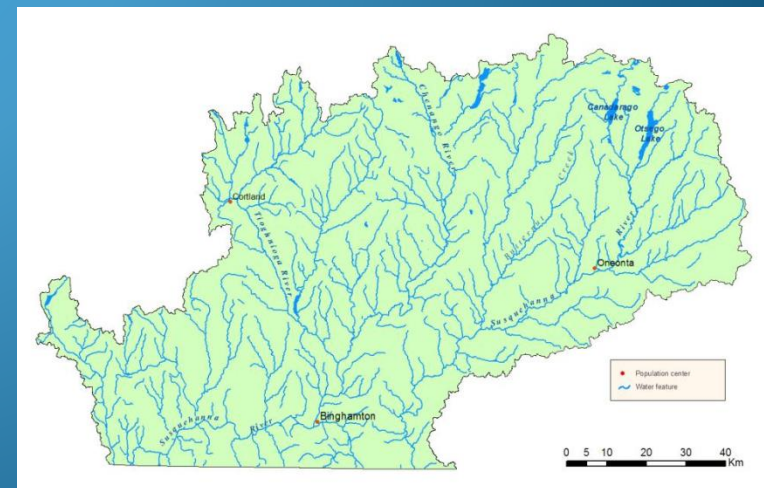
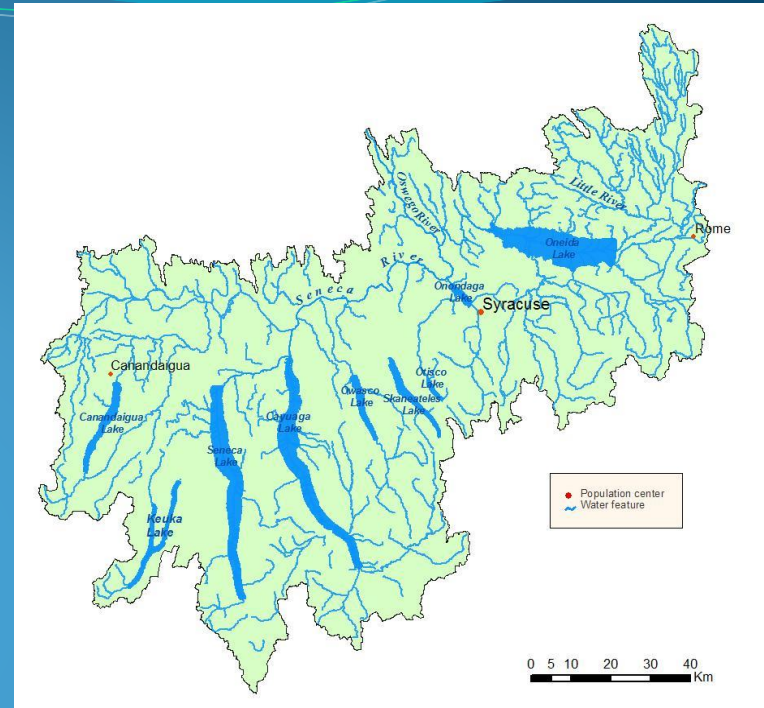




# Our Watersheds



Upper Susquehanna River Basin  
Tioghnioaga River – Headwater s of the  
Susquehanna River to the Chesapeake Bay



Upper Susquehanna River Basin

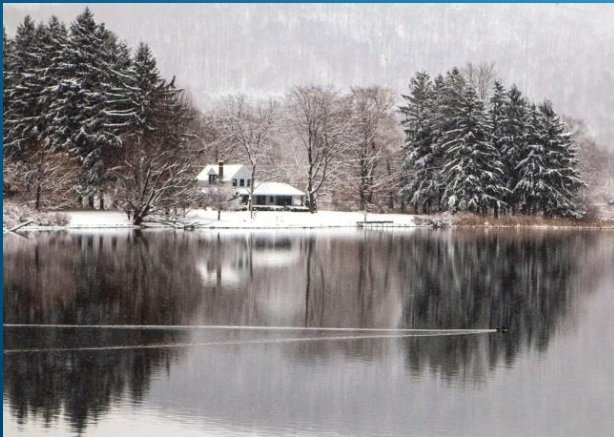
# We work together to find solutions for common and individual lake issues through

- education and outreach
- collaboration
- mutual support

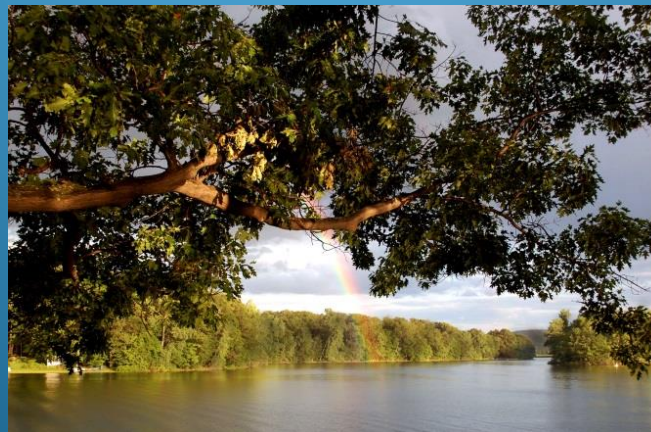
Crooked Lake



Little York Lake



Song Lake



Tully Lake





# We Address Our Shared Concerns

- Threats from a growing number of aquatic invasive species,
- Climate changes - warming waters and intense storms
- Overabundant growth of plants and/or algae
- The proliferation of harmful algal blooms (HABs),
- Storm and agricultural runoff (outdated septic systems)
- Education about and practical implementation of  
“Best Management Practices,”
- Challenges of over development and Keyholing, where multiple properties use one lake access point.
- Water quality issues having to do with dissolved oxygen, nutrients and/or water clarity,
- Development of undesirable infrastructure, such as gas pipelines or propane storage facilities.

# Collaborations

- NYS DEC / NYSFOLA Coordinated Programs including CSLAP
- SUNY Oneonta
- EPA Programs – HABs Reporting (Bloomwatch)
- SUNY – ESF
- Cortland County Soil and Water

## A comprehensive program to Address Aquatic Invasive Species

- Watercraft stewards at boat launches
- Signage and community outreach
- School programs
- Web site and social media

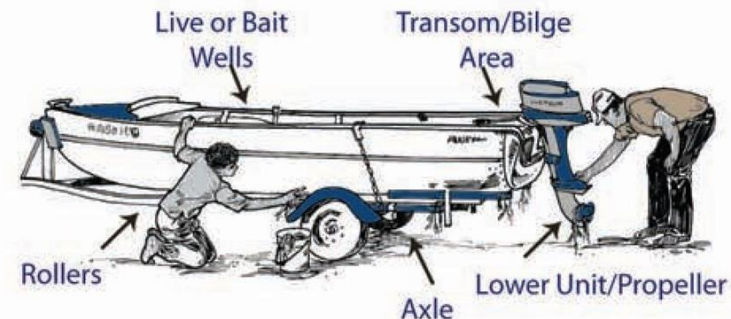
Funded by a 3-year, \$130,000 grant from DEC in partnership with a \$30,000 match.

- Cortland County Soil and Water
- C-OFOKLA
- SUNY-ESF
- Finger Lakes Institute



- Check for and remove any visible plants or debris
- Clean and drain your boat and equipment
- Dry everything that came into contact with water

### WATERCRAFT CHECK POINTS

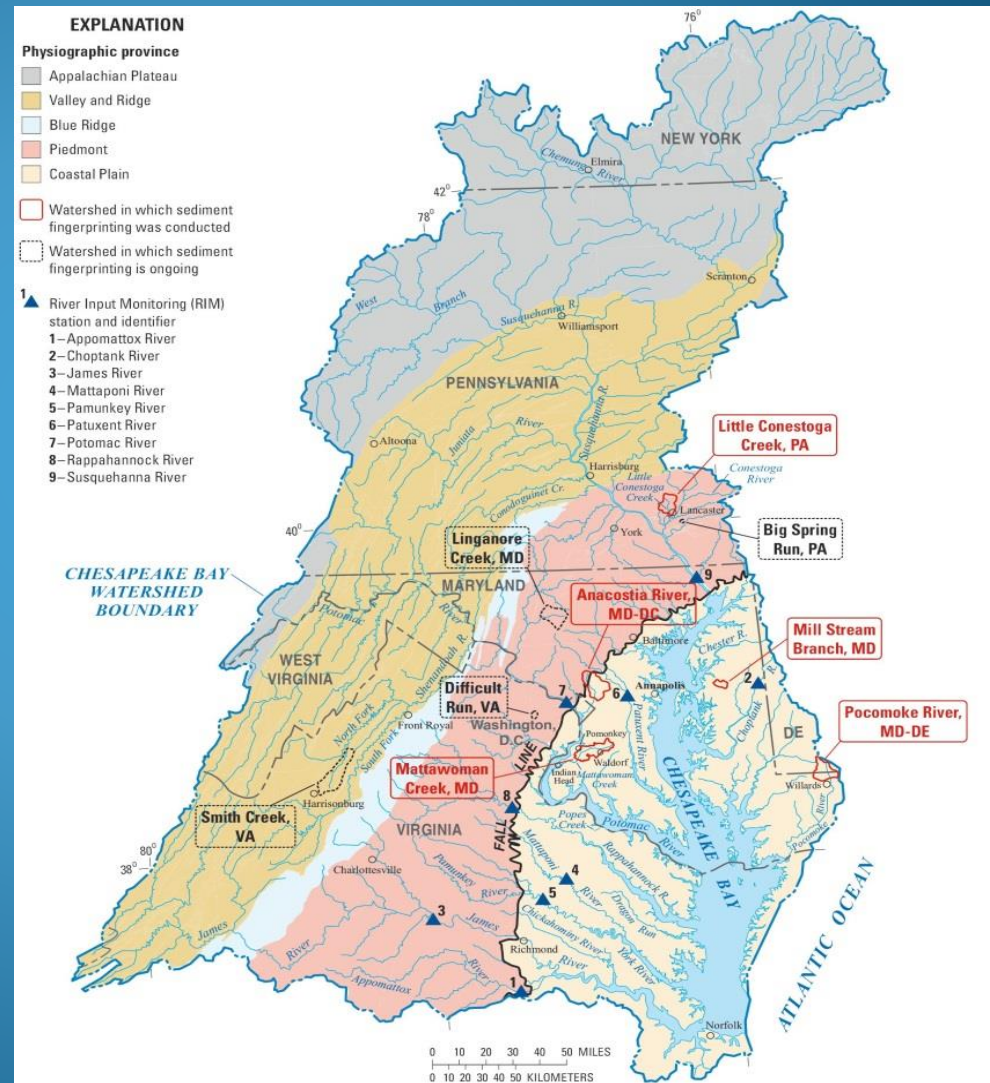




# National Fish and Wildlife Foundation

Technical  
Capacity Grant  
for the  
Chesapeake Bay  
One Year -  
\$50,000

Creating Watershed  
Implementation  
Plans for mitigating  
stormwater in a  
chain of Kettle  
Lakes



**Figure 2.** Small watersheds within the Chesapeake Bay watershed where U.S. Geological Survey sediment fingerprinting studies were conducted or are ongoing (modified from Gellis and others, 2009). Also shown are the River Input Monitoring (RIM) stations

# Help for our lakes and larger goals...

## This project

- is an investment in the goals of New York State's Phase II watershed implementation plan (WIP) through increased data and development of watershed-specific WIPs
- provides additional information to New York State to achieve its Chesapeake Bay total maximum daily load (TMDL)
- the results of this project inform local watershed improvements
- presents potential for positive impacts on the broader Chesapeake Bay watershed.

# Syracuse University – Environmental Finance Center

What are EPA Environmental Finance Centers Provide

- *knowledge about how to fund environmental programs*
- *understanding of financing mechanisms essential to successfully implement environmental programs at local, state, and federal levels.*
- *educate public officials and organizations, currently on the front lines of financing environmental facilities and services, about options and tools available to help them meet their goals*

Serving EPA Region 2

Khristopher Dodson

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Our Team:

Associate Director, Khristopher Dodson

Program Manager, Meredith Perreault

Project Assistants: Tess Clark, Jessica Ekerlin & SU graduate students



# Princeton Hydro, LLC

**Range of Services:** [www.princetonhydro.com](http://www.princetonhydro.com)

## **Main Office**

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Ringoes, NJ 08551

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f. 908.237.5666

Our team:

Senior Scientist, Katie Walston

Senior Limnologist, Michael Hartshorne

# Participants – Our Team

## Grant Administrator

Syracuse University Environmental Finance Center

## Grant Contract

Princeton Hydro

## Other Participants

Cortland County Soil and Water

Cortland-Onondaga Federation of Kettle Lake Assoc.

## Beneficiaries

Crooked Lake

Little York Lake

Song Lake

Tully Lake

# Project Timeline

2016

- May – Develop a team and begin planning
- September – Submission of Grant Application

2017

Grant Awarded

- January – Begin Public Engagement
  - Introduce project plan at Town Board Meetings, Planning Board Meetings and Association Meetings
- April – Field Assessment of each lake - Princeton Hydro with Landowner and Association Participation
- July – Water chemistry analysis - Princeton Hydro with residential participation
- August – Draft Plans available for Review
- November – Outreach through two publicized, Public Engagement Meetings
- December – Inclusion of Conceptual Designs and Public input for Final WIPs
- December – Final Report to NFWF



# Public Participation and Engagement



Town Hall Meetings  
Resident assistance during testing  
Open (Advertised) Public Meetings

# One Watershed, Many Lakes: A Strategic Plan for the Kettle Lakes of Southern Onondaga & Northern Cortland Counties

Michael Hartshorne, Senior Limnologist,  
Princeton Hydro LLC

Today at 2:00 in the Long Lake Room



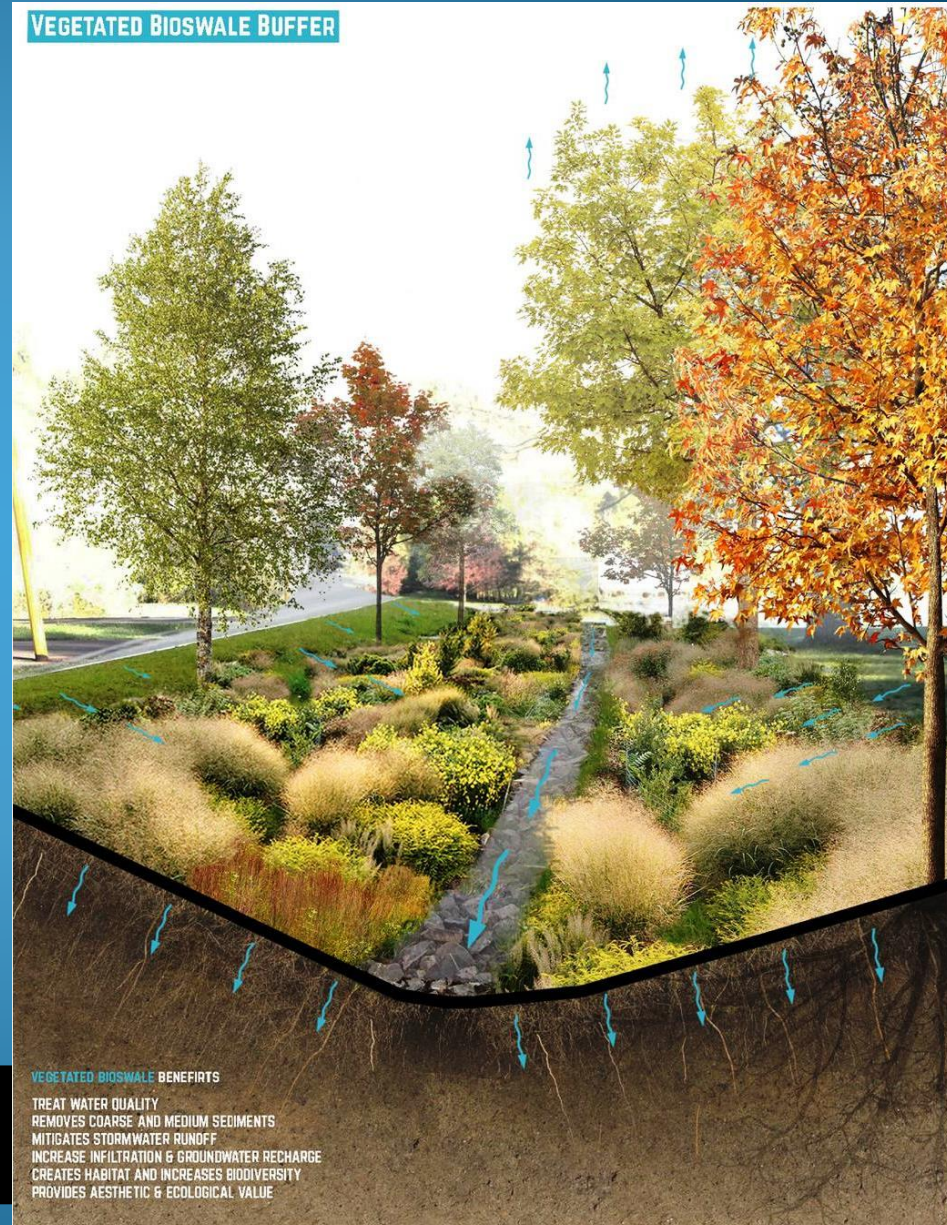
## RIPARIAN BUFFER



# SU-EFC Landscape Designs

by Josue Cruz

## VEGETATED BIOSWALE BUFFER





# Current Endeavors

## Next Level of Funding Watershed or Municipality?

### Finding The Right Partners

- Connecting with our Soil and Water Districts
- Connecting with Landowners
- Connecting with other agencies

# Bundles – Created by SU-EFC

Prioritize Projects

Identify Property Owners (public/private)

Find Possible Grant Opportunities

Match with Our Partners

- 1 – Tully bundle - Onondaga County
- 2 - Cortland County bundle - owns of Homer and Preble
- 3 – Song Mountain Improvement Bundle
- 4 – Kettle Lake Shoreline Demonstration Project Bundle
  - Both Counties
- 5 – Dwyer Memorial Park – Cortland County
- 6 - Riparian Buffer BMPs – Both Counties
- 7 – Ditch Management Projects – Both Counties

## 1. Tully Bundle

### Onondaga County

Town may apply for funding for green infrastructure improvements including bioswales at Tully High School, riparian buffers at two sites (Cummings park and agricultural land alongside Rt. 11), and roadside ditch improvements (step pool conveyance) at Truxton Road near Grove Street Apartments. This can be funded through the DEC WQIP program as well as the Green Innovation Grant Program (Environmental Facilities Corporation).

Lake	Priority	Landowner (or adjacent)	#	Lat/Long	Description of Site	P	BMP
Tully	High	James Potter LLC	2	42.77910"N, 76.11510"W	Agricultural Field – West Branch of Troughnioga River	1.2	Riparian Buffer
Tully	High	Tully Village INC	4	42.7958N 76.10371"W	Cummings Park	1.2	Riparian Buffer
Tully	Medium	Grove st. Apartments CO Cobblestone Square	7	42.79476 W 76.10303	Truxton Road near Grove St apartments	12.3	Step Pool Conveyance
Tully	Medium	Tully Central School District Various Parcels	6	76.11403 W42.79	Tully High School	1.4 variable	Bioswale(s)



# Atlantic States Legal Foundation

Atlantic States Legal Foundation, Inc. (ASLF) is a New York chartered not-for-profit corporation founded in 1982 with its purpose being to provide technical, legal, and organizing services to citizens, citizen groups, local governments, and others on a wide variety of environmental issues.

**The Atlantic States Legal Foundation, Inc.**

658 W. Onondaga St. Syracuse NY 13204

TEL: 315-475-1170

[www.aslf.org](http://www.aslf.org)

Name	Source	Description	Eligible Applicants	Funding Type & Amount
Chesapeake Bay Stewardship Fund – Small Watershed Grants	NFWF	The Small Watershed Grants promote community- based efforts to implement conservation strategies to protect and restore the Chesapeake Bay and its tributary rivers and streams.	Local governments, municipalities, Indian tribes, K-12 Educational Institutions	Grants, between \$20,000 - \$200,000; non-federal matching contributions required equal to 1/3 of grant request
Water Quality Improvement Project Program	NYS DEC	This grant program reimburses projects that directly address documented water quality impairments or protect a drinking water source. Eligible projects include wastewater treatment improvement, non- agricultural nonpoint source abatement/control, salt storage, aquatic habitat restoration, and MS4s.	Municipalities, MS4s, SWCDs, and nonprofits	Grant; Varies, \$3,000 to \$5,000,000; Local share match requirement varies
Green Innovation Grant Program	NYS EFC	This program provides funding for green infrastructure practices such as riparian buffers, floodplains, and/or wetlands, stream daylighting, and more. Projects that spur innovative approaches to stormwater management are favored.	Municipalities, state agencies, SWCDs, Private entities	Grant; Up to 90% total cost
Local Waterfront Revitalization Program	NYS DOS	This program helps create a planning document prepared by a community and then helps to implement the plan for designated inland waterways. The Program may be comprehensive and address all issues that affect a community's entire waterfront or it may address the most critical issues facing a significant portion of its waterfront.	Municipalities	Grant; Varies
Environmental Protection Fund Grant Program for Parks, Preservation, and Heritage	NYS OPRHP	The Parks program provides matching grants for the acquisition, planning, and development of parks and recreational facilities to preserve, rehabilitate or restore lands, waters or structures for park, recreation or conservation purposes.	Municipalities and nonprofits	Grant; Up to \$500,000; Matching share of 50% of project cost
Comprehensive Riparian Buffer Program	USC	This program provides financial compensation and resource assistance to increase the implementation and restoration of riparian forest buffers and associated water quality BMPs.	USC-member SWCDs apply on behalf of local landowners	Project planning and implementation, requires 10% match to project cost, which can be in-kind
Trees for Tributaries	USC	USC coordinates this NYS DEC program in the Upper Susquehanna watershed; the state provides free or low cost plant stock and materials to reforest tributaries.	USC-member SWCDs	USC submits plant and material requests in December of each year for projects planned by member SWCDs

# Find an organization that will help....

## Public

Soil and Water Districts  
Municipal Highway Departments  
Towns and Municipalities

## Private

Syracuse University –  
Environmental Finance Center:  
[kadodson@syr.edu](mailto:kadodson@syr.edu)

Atlantic States Legal Foundation  
TEL: 315-475-1170

Resources at this conference!





Know your watershed(s) – hydrologically and politically,  
Work with the experts,  
Know your needs,  
Collaborate, collaborate, collaborate!  
Be open to ideas.

[www.COFOKLA.org](http://www.COFOKLA.org)

**Thank You**