# YCC COLLABORATIONS:

# **Enhancing Lake Communities**and Protecting Lakes











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# What is a Youth Conservation Corps?



- Summer youth employment program for local students.
- YCC crews install erosion control practices on lakefront properties that reduce sources of pollution to lakes.
- Working with private landowners, businesses, lake associations, private homeowner and road associations, and municipalities.
- Provide a low-cost option for landowners that want to make lakefriendly improvements to their property.

# Stormwater Best Management Practices (BMPs)



### BEST MANAGEMENT PRACTICES

#### KEEPING LAKES HEALTHY: BMP VIDEO SERIES

Installing a Rain Garden

Installing a Vegetative Buffer

WATCH VIDEO

Installing Infiltration
Steps

WATCH VIDEO

Installing Rubber Razors

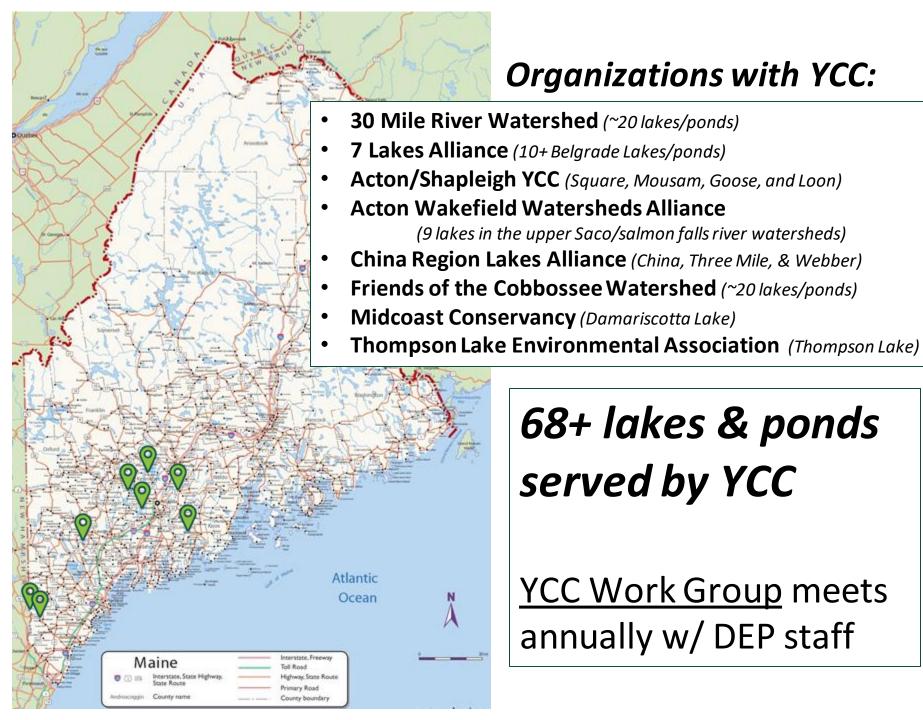
WATCH VIDEO

# BEST MANAGEMENT PRACTICES (BMPS) PUT TOGETHER BY THE PORTLAND WATER DISTRICT:

- · Dripline Trench
- Dry Wells
- Erosion Control Mix
- · Infiltration Steps: Infiltration Trench
- Lake Shoreline Riprap
- Live Staking
- Open Top Culvert

# NATIVE PLANT LISTS BASED ON SITE CONDITIONS (PORTLAND WATER DISTRICT):

- Shady and Wet Soil Conditions
- Part Sun and Wet Soil Conditions
- . Sunny and Wet Soil Conditions
- . Shady and Dry Soil Conditions
- Part Sun and Dry Soil Conditions
- Sunny and Dry Soil Conditions



### Maine DEP's Permit by Rule Exemption YCC Pilot Project

#### What is Maine DEP's Pilot Project?

- Streamlined process for small projects with low risk of environmental impacts and with water quality benefits.
- Alternative for certain de minimis activities (see list of BMPs).
- No PBR required.
- Project information submitted to DEP through Survey 123 form.
- Two-year pilot project with DEP oversight.
- Currently open to the following active YCC groups in the State:

Acton-Shapleigh YCC
Acton-Wakefield Watersheds Alliance
7 Lakes Alliance
China Region Lakes Alliance
Midcoast Conservancy
Friends of the Cobbossee Watershed
30 Mile River Watershed Association

#### Questions?

Please get in touch.

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### Youth Conservation Corp Pilot Project





#### **Buffer Planting**

Point plantings of non-invasive (preferably native) vegetation. Add specifications for width/number of plants/amount of fill.



#### **Runoff Diverters**

Includes open-top culverts, rubber razors, water bars, and broad-based dips.



Important Note: BMP's not listed above are not eligible for this pilot projects, such as riprap and infiltration steps.

### Eligible BMPs

Refer to DEP's Conservation Practices for Homeowners fact sheets for information on appropriate materials and installation:

https://www.maine.gov/dep/land/watershed/ materials.html

#### **Erosion Control Mulch (ECM)**

Application of coarse type of mulch (typically, 3-4 inches deep) to cover areas of bare soil.



#### Roof Dripline Trench/Drywell

Installation of crushed stone trench along roof drip edge or drywell at gutter downspout. Should not extend beyond necessary area.





#### Path and Trail Stabilization

Define and stabilize narrow, preferably meandering, paths and trails. Does not include infiltration steps.



#### Rain Gardens

Bowl-shaped depression (typically 20-30% of drainage area) that is planted with non-invasive vegetation.



# #1: Low-cost erosion prevention for landowners



Prevent erosion



Reduce amount of polluted runoff and phosphorus entering lakes & streams



Help protect water quality!

# **#2: Youth Education & Employment**

Seasonal employment for local youth (age ~16-22)

Fun, outdoor work in beautiful lake settings

Gain understanding of water quality issues and threats to our lakes

Hands-on and meaningful experience

Provides a valuable service for our lake communities



## **#3: Support other watershed initiatives**

**LakeSmart Team?** ... YCC crew installs BMPs recommended to landowners during a

LakeSmart evaluation.

**Recent Watershed Survey?** ... YCC program provides technical assistance and BMP

installation to address identified erosion sites.

**319 Grant Project**? ...incentivize landowner YCC participation to

address erosion sites; source of local match.

### #4: Awareness

- Landowners are examples of good lake stewards
- Projects draw attention –
   opportunity for education/outreach
- YCC crew members often live on the lake, too educate family and neighbors
- Overall increased visibility for your organization/mission



# **YCC Program Overview**

## Thompson Lake Environmental Association





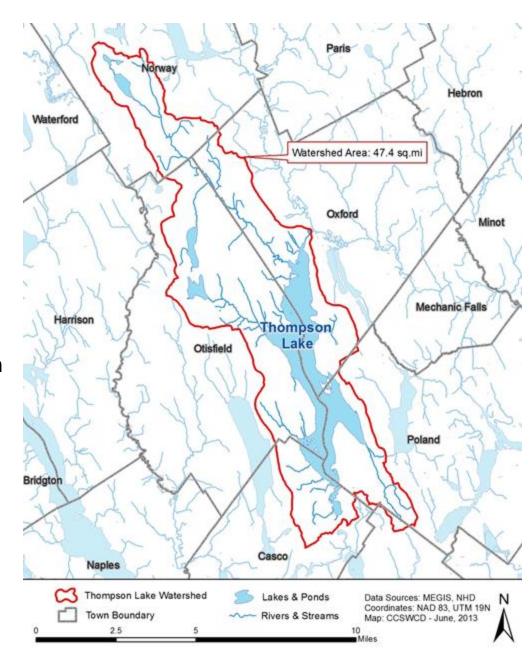
### **About TLEA and Thompson Lake**

TLEA was Established in 1971, ~500 donating members today

Programs include water quality monitoring, milfoil management and IPP surveys, courtesy boat inspections, LakeSmart, and the Youth Conservation Corps

Thompson Lake is 4,000+ acres located in the towns of Oxford, Poland, Casco, and Otisfield in southwest Maine.

The watershed is 35 square miles across three counties: Androscoggin, Cumberland, and Oxford.



### **History of TLEA YCC program**

Started in 2002 as part of a 319 watershed grant

17 years of YCC work, supported several phases of 319 watershed grants

stopped in 2018

2020 & 2021 - Hiatus during/following covid

2022 - First season back in action! 12 projects completed.



Started working collaboratively with YCC work group and other organizations to learn more and train staff.

Also became eligible for Maine DEP permit exemption program

Supervising board member and Project Director completed BAESC training

2023: ~12 new projects lined up for this season

### **Current YCC capacity / how the program is delivered**

Self-funded program supported by ~500 individual members

Small YCC crew - 2 paid crew members & 1 paid Coordinator Students, Oxford Hills Comprehensive High School Teacher is YCC Project Coordinator in summer

Crew: 8 week season, 4 days/week, 8 hr/day

Project Coordinator: 10 week season, 5 days/week, 8 hr/day

~12-14 projects per season on average

Truck is rented for the YCC season

Complimentary evaluation & estimate w/ materials list

landowners pay for materials, and YCC labor billed hourly (when supported by 319 grants, labor was free)





<sup>\*</sup>New watershed survey complete in 2023 & WBPP in the works - YCC will support these efforts and future 319 grants - we hope to expand program to six crew members to support increased need.

#### **Obstacles & Lessons learned**

Hire applicants with landscaping/tool/manual labor experience

Recent years - few applicants, increase hourly rates significantly in 2023

Board member collaboration is key

We can't fix everything! Know when to refer to a contractor for complex sites

Phased approach at some properties - we can't do it all at once!

How to deal with shoreline stabilizations projects

Project planning with limited use of power tools





#### **Helpful Tips**

Develop a preferred contractor & material supplier list

If hiring a Project Director without experience - understand training needs and establish a relationship with experts for guidance.

Remember that this is NOT a money-making program.

YCC is a long-term commitment providing visibility to your organization, awareness about NPS threats, and a valuable low-cost service to the landowners that need it most.

Identify person on your board that will support the YCC

Assess your organization and watershed NEEDS so that you obtain maximum buy-in across all levels of your organization and supporting landowners/members.



#### Other

Contact Jim Skinner for example job descriptions for YCC Crew members & Project Director positions

Policy effort needed to include other shoreline stabilization methods in the permit exempt program, and training for how to install.

# **YCC Program Overview**





### 30 Mile River Watershed Association

Working as a community for clean and healthy waters

Founded in **2008**, 30 Mile is a public-private collaboration of seven rural towns, nine lake associations and two land trusts.

#### **Coalition Members Lake Associations**

Androscoggin Lake Improvement Corporation

Basin-David-Tilton Ponds Association

Echo Lake Association

Flying Pond Improvement Association

Greater Minnehonk Lake Association

Kimball Pond Association

Lovejoy Pond Improvement Association

Parker Pond Association

Pocasset Lake Association

#### Municipalities

Chesterville

Fayette

Leeds

Mount Vernon

Readfield

Vienna

Wayne

#### **Land Trusts**

7 Lakes Alliance Kennebec Land Trust

30 Mile River Watershed 90 mi<sup>2</sup> watershed 10 towns 3 counties 20+ lakes & ponds

30 Mile River

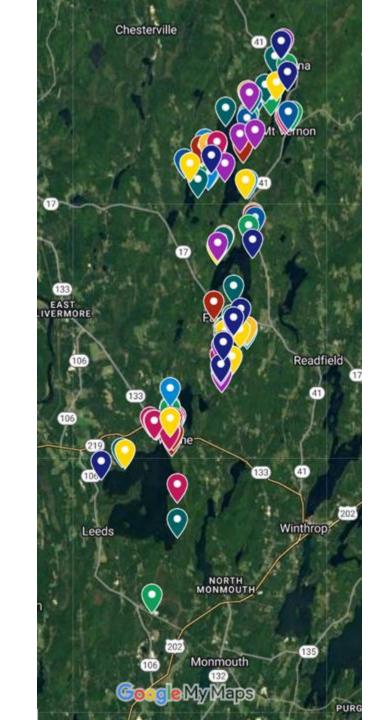


### For Lake-Friendly Landscapes Stopping soil pollution for cleaner lakes



## 132 projects

on 11 lakes and ponds in 10 years



### 30 Mile's YCC Program ...the early years

First YCC crew in 2011

Foundation grants to get started

Purchased and donated tools

**Technical expertise** provided by KCSWCD staff (project plans, material and costs estimates)

Truck/trailer donated for YCC season

Landowner paid for cost of **materials only**- YCC labor was free

3-5 crew members, including a crew leader







### Today...

- 3-4 crew members, led by a crew leader
- Complete 10-14 projects per season
- 6 weeks per season, 3 days/week
- Technical assistance and project planning now in-house by year-round staff



### Landowners hosting YCC crew receive...

- Free site visits & on-site recommendations from 30 Mile technical staff
- A complimentary project plan, materials lists, and cost estimate
- Permitting assistance / waived permitting fees
- Cost-sharing with 30 Mile to significantly reduce labor expenses
  - landowner pays 25% of labor cost billed at a daily rate



#### **Obstacles & Lessons Learned:**

### Early on-

- o Funding & local support
- Prioritizing meaningful projects that have impact
- Finding staff/subcontractors with the technical expertise to implement the correct BMPs and well executed installation

### **Ongoing-**

- Hiring/retaining crew members (following a 2-year break during covid)
- High-cost equipment needs (truck and trailer)
- Space for local material stock (less flexibility, good estimates)
- Complex projects when to refer to a contractor, and then FINDING one

Riprap / shoreline stabilization projects with new DEP policy



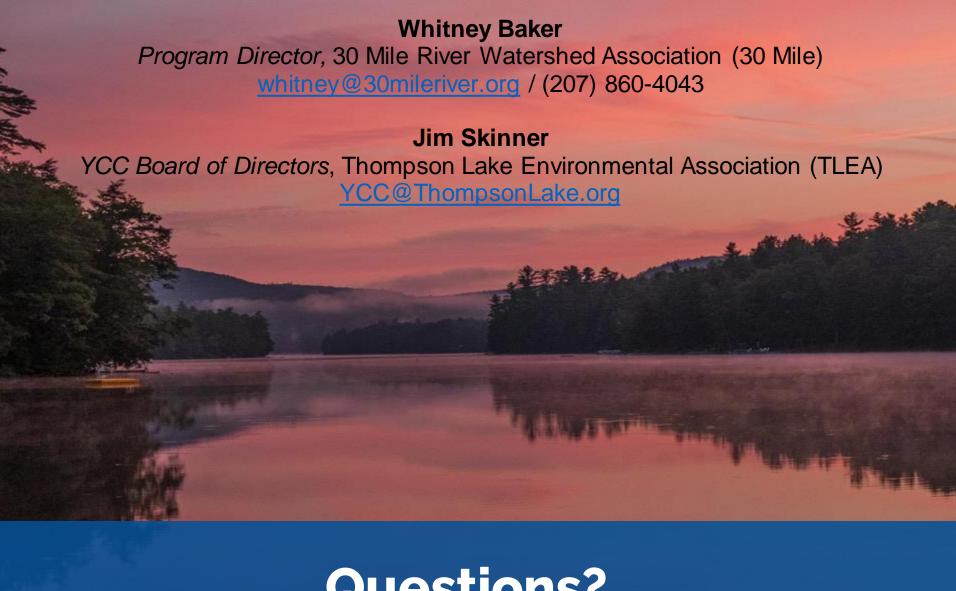






### Helpful Tips:

- If starting new reach out to active YCC organizations and the YCC work group!
- Plan early
- Hiring find contacts at local high schools and college career centers to connect with qualified applicants
- Find a balance between completing a comprehensive fix with several BMPs & when to phase the work over more than one YCC season
- Maintain relationships with Town CEOs, Lake Associations, and Beach/Homeowner Associations to promote the program.



# **Questions?**