

Lake Napa Suwe Association

September 22, 2020



LAKE NAPA SUWE MANAGEMENT PLAN 2020



Outline:

1. Re-cap since last meeting
2. Long Term Strategic Plan Lake Napa Suwe
-Goals, Objectives and Actions Item Review
3. Implementation Structure
4. Benefits

Lake Napa Suwe Association Recap:

- Engaged ILM to execute Long Term Strategic Plan for Lake Napa Suwe.
- Drone and boat survey June 2020
- Received Draft Plan early August 2020
- WMB Grant application available August 18
- 2021 Grant application discussion LC SWM September 3
 - Fox Lake Watershed allocation-\$36,900
 - Not sure of any competition
- Provided Draft of application to LC SWM Sept 15.

Lake Napa Suwe Long Term Goals as stated in Grant Application

1. Improve aesthetics in the watershed
2. Encourage healthy native plant communities in and around the lake.
3. Encourage community investment by improving recreational opportunities for non-motorized boating and fishing.

Goal 1: Improve Aesthetics in the Watershed

Objective: Reduce the percentage of shoreline experiencing severe or moderate erosion by 50% by 2030

- Action: Apply for grants for native vegetative shoreline stabilization installations
- Action: Encourage homeowners experiencing erosion to install shoreline buffers
- Action: Remove invasive buckthorn from shorelines

Objective: Eliminate phosphorous fertilizer use in the watershed by 2025.

- Action: Work with the municipality to educate homeowners and pass legislation to limit phosphorous fertilizer application

Objective: Reduce reactive phosphorous in the lake by 50% by 2030.

- Action: Analyze sediment phosphorous concentrations and apply a nutrient deactivation product at the prescribed rate

Goal 2: Encourage healthy native plant communities in and around the lake

Objective: Reduce Eurasian watermilfoil and curlyleaf to less than 25% of the aquatic vegetation community within 10 years

Action: Follow a vegetation management schedule with regular herbicide applications to control non-native species

Action: Reduce applications when populations are low, and use manual harvesting to allow native species to flourish

Action: Introduce desirable native species, such as *Chara*
Objective: Reduce Phragmites presence to small, easily controlled patches

Action: Annual herbicide applications as needed to control plants

Objective: Maintain cattails at their current density

Action: Treat cattail stands as needed when they are encroaching into the lake and impeding boating activities.

Goal 3: Encourage community investment by improving recreational opportunities for non-motorized boating and fishing

Objective: Reduce carp to 10% of current levels by 2025

Action: Perform a fish survey to identify current carp biomass

Action: Seine lake for carp in the winter as needed to keep carp biomass below detrimental levels

Objective: Increase LNSA membership by 100% within 5 years

Action: Create community events to encourage engagement-buckthorn removal days, carp roundups.

Action: Receive grants for management activities, such as stabilization, invasive species control, nutrient loading study

Action: Make promotional footage and educational materials available to residents

Goal 3: Encourage community investment by improving recreational opportunities for non-motorized boating and fishing

Objective: Increase surrounding community recreation in Lake Napa Suwe by 100% in 5 years

Action: Install a community non-motorized boat launch for surrounding neighborhoods

Action: Survey residents at beginning of management and after 5 years, to see how perceptions and use change. Use results to update management focus as needed.

Action: Maintain an open channel for boating during the growing season through manual removal of Coontail along a pre-determined navigation channel

10 Year Execution Plan; Focus Year 1-Phase 1:

Goal	Objective	Action	Management Year										
			1	2	3	4	5	6	7	8	9	10	
Goal 1: Aesthetics	Reduce shoreline erosion	Native shoreline grant	Dark Green	Dark Green									
		Shoreline stabilization	Dark Green		Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green
		Remove buckthorn	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
	Eliminate P fert.	Education and legislation	Dark Green		Dark Green	Dark Green	Dark Green						
	Reduce react. P	Nutrient deactivation					Light Green						Light Green
Goal 2: Healthy Plant Communities	Milfoil and curlyleaf control	Regular herbicide app.	Dark Green		Dark Green		Dark Green		Dark Green				
		Harvest low population			Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green
		Introduce desirable species		Dark Green		Dark Green		Dark Green		Dark Green			
	Control Phrag.	Annual herbicide app.	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green
	Maintain cattails	Herbicide app. as needed	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
Goal 3: Improve Recreation	Control carp	Fish survey	Dark Green			Dark Green			Dark Green				
		Seine carp as needed	Dark Green	Light Green			Light Green			Light Green			
	Increase LNSA membership	Community events	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
		Grant writing				Dark Green		Dark Green		Dark Green		Dark Green	Dark Green
		Educational materials	Dark Green	Dark Green									
	Increase Recreation	Install boat launch	Dark Green		Light Green								
		Survey residents	Dark Green						Dark Green				
Maintain boating channel		Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	

Table 6. Proposed management timeline. Dark green highlighted cells are considered a top priority for management, and light green cells are secondary priority.

Phase 1 Benefits

as stated in Grant Application Criteria:

- Interjurisdictional benefits
- Flood Hazard reduction benefits
- Structural damage reduction
- Water quality benefits
- Natural resource benefits
- Nuisance flood reduction
- Multiple use benefits
- Outside funding utilization
- Phosphorus public education
- Supporting 9 Lakes Watershed initiative.



Thank you for your
consideration