

Recommended Implementation, Funding, and Priority Plan for the Granite Lake Comprehensive

Goals/Objectives/Actions	Priority Level (set by the GLA)											Implementers	
		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030		
1A. Maintain total phosphorus (TP) concentration at below the WI State Phosphorus Standard for stratified drainage lakes of 30µg/l.													
1B. Reduce the mean percent of lake use days that have moderate algal levels (chlorophyll-a concentration exceeds 20µg/l) by at least 1/3 in five years and by 2/3 in 10 years.													
1.1 Reduce external loading of TP by 10% (29-kg) in five years and by 20% (58-kg) in ten years													
Nearshore Area	Complete a boat landing improvement project		x	x									GLA, Town of Lakeland
	Implement Healthy Lakes and Rivers projects			x		x		x		x		x	GLA, RP
	Protect undeveloped shoreland through stewardship and easement programs				x	x	x	x	x	x	x	x	GLA, Conservancy Groups
Lake	Educate lake users about the impact of boats and waves in shallow water	x	x	x	x	x	x						GLA
	Increase the amount of coarse woody habitat		x		x		x			x		x	GLA, Contractors
Watershed	Review the implementation of Forestry BMPs in the watershed	x	x	x	x	x							GLA, Barron Co.
	Encourage and support the implementation of Agriculture BMPs in the watershed				x	x	x	x	x				GLA, Barron Co.
	Update land use within and runoff from sub-watersheds within the larger Granite Lake watershed				x	x	x	x	x				GLA, Barron Co. RP
	Evaluate the potential for wetland restoration projects in the watershed							x	x	x	x	x	GLA, Barron Co.
1.2 Fill in data gaps that exist that will improve the adaptability of current and future water quality management planning													
	Complete an in-lake phosphorus sediment release study			x	x								RP, UW-STOUT
	Complete a local groundwater study			x	x								RP, Groundwater Institute
2. Keep new AIS from entering the lake and existing AIS from increasing their distribution and density.													
2.1 Implement actions to prevent new AIS from entering and becoming established in the lake													
	AIS prevention and education		x	x	x	x	x	x	x	x	x	x	GLA
	AIS monitoring		x	x	x	x	x	x	x	x	x	x	GLA, RP
2.2 Prevent existing AIS in the lake from increasing in distribution and density													
	Annual AIS recon and mapping		x	x	x	x	x	x	x	x	x	x	GLA, RP
	Physical removal (CLP and PL)		x	x	x	x	x	x	x	x	x	x	GLA, RP
3. Manage aquatic plants in a manner that maintains lake use and reduces the impacts of non-native, invasive species													
3.1 Implement native aquatic plant and filamentous algae management													
	Rake removal		x	x	x	x	x	x	x	x	x	x	GLA
	Surface water skimming				x	x	x	x	x	x	x	x	GLA, Contractors
3.2 Implement curly-leaf pondweed (CLP) management appropriate for the scale of infestation													
	Physical removal - rake, snorkel, scuba; DASH		x	x	x	x	x	x	x	x	x	x	GLA, Contractors
	Alternative management actions - herbicide application, contracted harvesting				?	?	?	?	?	?	?	?	GLA, RP, Contractors
3.3 Be prepared to deal with any new AIS that may get introduced into the lake													
	1 Develop an AIS Rapid Response Plan for AIS not currently present in the lake		x	x									GLA, RP
4. Implement monitoring and evaluation that supports adaptive management													
4.1 Document trends in water quality													
	Continue CLMN expanded water quality testing		x	x	x	x	x	x	x	x	x	x	GLA
	Add fall sampling of total phosphorus and chlorophyll-a												GLA, RP, SLOH
	Increase temperature and dissolved oxygen profiling to at least once a week		x	x	x	x	x	x	x	x	x	x	GLA
	Add total and dissolved phosphorus sampling of the water column if part of a new study to better determine internal loading			?	?	?	?						GLA, RP
4.2 Document changes in the aquatic plant community													
	Complete a PI survey at the half-way point in this project, and again at the end							x				x	GLA, RP
5. Implement the Granite Lake Comprehensive Lake Management Plan effectively and efficiently with a focus on community and constituent education, information, and involvement													
5.1 Complete annual project activity and assessment reports													
	Use data to facilitate adaptive management strategies to improve management planning		x	x	x	x	x	x	x	x	x	x	GLA, RP
5.2 Complete an End-of-project Summary Report													
	Overall review of project successes and failures							x				x	GLA, RP
	Revise or rewrite Comprehensive Plan as needed							x				x	GLA, RP
5.3 Develop partnerships to help support management actions													
	Communicate with local, county, and state entities; schools and local business; clubs and organizations, etc. to generate support for management actions.		x	x	x	x	x	x	x	x	x	x	GLA, RP
	Share results with partners from 5.3.1		x	x	x	x	x	x	x	x	x	x	GLA, RP, Partners

Implementers: Granite Lake Association (GLA), Town of Lakeland, Barron Co., Resource Professionals (RP), Contractors, State Lab of Hygiene (SLOH), Partners, UW-STOUT, Groundwater Institute, Conservancy Groups

