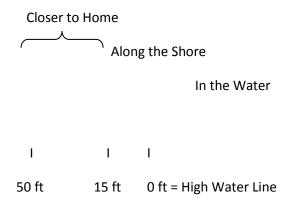
The Itasca County Lake C	<u>Challenge</u>	<b>2</b> Lake		Propert	y Owner		Property #	Property Width	ft.	Date	
Step 1: Take a closer look at you	r site. <u>Ste</u>	p 2: Note ite	ems circle	d in these two	grey colum	ns.	Step 3: Consider the correspo	nding <i>Challenge(s)</i> in this colu	mn.	<u>Step</u>	4: Go for it
In the Water From the water's edge lakeward	Circ	le your response	s	If you circle iter columns, consid	ns in these two der a <i>Challenge</i>		In the Water Challenge Menu	Lake and Human Benefits	Relative Cost	Time- Effort	I'll take thi Challenge
What is the width of the recreation area where aquatic plants have been removed?	No water use	About 10 feet	About 20 feet	About 30 feet	More than 40 feet		A Smaller Footprint Where aquatic plants were removed, allow them to grow back.	Fish, frogs, and other wildlife use plants for nesting, cover and food. Aquatic plants protect your shore	0	None	
where aquatic plants have been removed.	water asc	10 100	201000	30 1001	10 1001		<b>Go Fish!</b> Replant aquatic plants (MN DNR no-fee permit required).	from erosion. Native aquatic plants can minimize invasive plants.	\$-\$\$	Some to Moderate	
Are there downed trees ("fish sticks") in the water?	Abundant fish sticks		Some fish sticks		No fish sticks		Fish Sticks Let fallen trees and branches remain along the shore and in the water.	Fish, turtles, water birds and mammals use downed trees for shelter, resting, hunting and food.	0	None	
How many accessories (docks+boats+other) are in the water?	0	1-2	3	4	More than 4		Ships Ahoy! Store on land the water accessories you don't often use.	Increase fish habitat (otherwise limited by water accessories).	0	None	
	<u>'</u>		·				,	· · · · · · · · · · · · · · · · · · ·	e if you've	already me	et this challeng
Along the Shore From water's edge to 15 ft landward of the high water line	Circle your responses		If you circle items in these two columns, consider a <i>Challenge</i>			Along the Shore Challenge Menu	Lake and Human Benefits	Relative Cost	Time- Effort	I'll take this Challenge*	
What width of your shoreline has been altered for lake access, view, recreation, other?	Little or none	About 10 feet	About 20 feet	About 30 feet	More than 40 feet	$\sum$	A Smaller Footprint Reduce this area to a smaller footprint with the following option(s).	80 percent of wildlife in MN depends upon a shoreland of native plants for their survival.	0 - \$\$\$	None to Moderate	
Within this area:  a. Describe the tree/shrub cover.	Dense	Many	Some	A few	None		<b>Hedge Your Edge</b> Plant native trees and shrubs along your shore.	Deep roots of native plants resist erosion from ice and wave action.	\$ - \$\$	Moderate	
b. What part is lawn or sand blanket?	None	About one quarter	About half	About three quarters	All or nearly all		<b>Green Armor Your Shore</b> Plant native grasses and grass-like plants.	Native plants also filter soil and pollutants from rainwater run-off.	\$ - \$\$	Moderate	
c. What part is mowed or weed- whipped?	None	Only enough for a path	Some	Most	All		<b>Bye-Bye Geese</b> Stop mowing and weed-whipping. Geese avoid tall plants where predators may be lurking.	1.5 pounds of poop per goose per day will not land on your lawn and wash into the lake.	Saves you \$\$	None	
d. What part is armored with rock?	None	About one quarter	About half	About three quarters	All or nearly all		<b>Soft Rock</b> Install native plants into existing rock.	Plants soften the appearance, filter run-off and provide wildlife habitat.	\$ - \$\$	Moderate	
e. What other hard surfaces exist? (Circle all that exist.)	None		Other?	Boat(s) Sidewalk Dirt path	Road Building Patio		Stop the Drop Remove unnecessary hard surfaces and replant or install pervious surfaces, berms, etc. to capture and filter rainwater.	Reduce rainwater run-off (carrying soil, nutrients and other pollutants) entering the lake by over 80%, and reduce algae in the lake, too!	\$ - \$\$	Moderate	
f. Is there a fire ring or area?	No				Yes		Ring of Fire Move fires and fire rings away from the lake (25 to 50 feet is recommended).	Reduce the phosphorous- and nitrogen-rich ashes carried into the lake by rainwater and wind.	0	Some	
g. What portion of the shore has an ice ridge?	All – Ridge not breeched	Part – Ridge not breeched	None – Natural slope	All/Part – Ridge breeched	All – Ridge regraded		No Water Over This Dam Leave ice ridge in place and create an access over it. Plant a rain garden behind it for added beauty and filter.	An ice ridge across your entire shoreline can capture and filter up to 100% of soil, nutrients and other pollutants in rainwater run-off.	0	None	
h. What length of shoreline is eroding? (continued on back side)	Little to none	About 10 feet	About 20 feet	About 30 feet	More than 40 feet		Shore Up Your Shore Consult with Itasca SWCD to determine which erosion control method is best for your shore. Permit may be required.	For a 100-ft lot, this can reduce the soil entering the lake by about 360 pounds per year and result in about 90 pounds less algae in the lake.	\$ - \$\$\$	Some to Great	

Closer to Home 50 feet landward of the high water line (excluding the Along the Shore area)	Ci	ircle your respons	ses	If you circle item columns, consid			Closer to Home Challenge Menu	Lake and Human Benefits	Relative Cost	Time- Effort	I'll take this Challenge*
What average width of this upland area has been altered for access, recreation, view, other?	Little to none	About 10 feet	About 20 feet	About 30 feet	More than 40 feet		A Smaller Footprint Reduce this area to a smaller footprint with the following option(s).	80 percent of wildlife in MN depends upon a shoreland of native plants for their survival.	0 - \$\$\$	None to Great	
In this area a. Describe the amount of trees. b. Describe the amount of shrubs.	Dense Dense	Many Many	Some	A few	None None		Super Filter Plant native trees, shrubs, ferns, vines, flowers, grasses and/or grass-like plants. They filter run-off, minimize erosion and provide food,	For a 100-ft lot, replacing lawn with a 50-ft forested filter can reduce the soil entering the lake by about 360 pounds per year and result in about 90 pounds less algae in the lake.	\$ - \$\$\$	\$ - \$\$\$ Some to Great	
c. What part is covered by lawn or bare soil?	None	About one quarter	About half	About three quarters	All or nearly all	$\sum \rangle$	shelter and nesting sites for songbirds and other wildlife.			Great	
d. What part is mowed or weed- whipped?	None	Only enough	Some	Most	All		No Mow-Let It Grow! Stop mowing and allow plants to grow back.	Taller grasses will better filter run-off from your property. A longer lawn will also better tolerate stress and limit weeds.	Saves you \$300/acre/yr	None	
		for a path					<b>Set Your Sights High</b> Raise the blade on your mower to 3 inches.		0	None	
							<b>Step it Up!</b> Modify your foot access to filter rather than funnel rainwater directly to the lake.	Reduce rainwater run-off (as well as the soil, nutrients and other pollutants it carries) entering the lake by over 80%.  This will reduce the algae in the lake, too!	0 - \$\$\$	Some to Great	
	Little or Stairs None Lift		l Other?	Sidewalk Path Steps	Road Building Patio/Deck Wall		Get with the Flow! Modify hard surfaces with water bar, berm, etc. to redirect rainwater to filter into soil rather than flow directly into lake.		0 - \$\$\$	Some to Great	
							Who'll Stop the Rain? Install rain barrel, rain garden, drip trench, etc. to capture and use rainwater.		\$ - \$\$\$	Some to Great	

\* or indicate if you've already met this challenge

Extra Credit Challenges	(Circle those that interest you.)					
Pass It On!	Help a neighbor with a <i>Challenge</i> Project Plant a filter, make a water bar, survey for frogs, etc.	<b>Beachcomber Program</b> Monitor your shore for aquatic invasive plants. <i>Training provided. Time: 5-15 minutes several times per year</i>	Start a "Welcome Aboard " Program Tell new lake neighbors about the Lake Challenge	<b>Tell several neighbors about the </b> <i>Lake Challenge</i> Host a boat tour or back yard party		
Family Fun	Shoreland Scientist See what's in your rainwater run-off! Equipment and training provided. Time: 15 min following each rain event.	Fish Count Training provided. Time: 1 hour per year	Frog and Toad Count Training provided. Time: 1 hour per year	Lake Cache Establish control points around the lake for youth activity		



To enroll or seek more information on the

Itasca Lake Challenge,

Contact: Mary Blickenderfer, University of MN Extension

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Notes:		