# Shuswap Lake Integrated Planning Process (SLIPP)

Presentation to Cowichan Waterboard

May 10, 2012





# Concerns raised by the public about pressures on the lakes from:

- 1. The fast pace of shoreline development
- 2. Degradation of water quality
- 3. Recreational use conflicts

Response complicated by a complex and overlapping government regulatory environment

The integrity of the lakes could be compromised

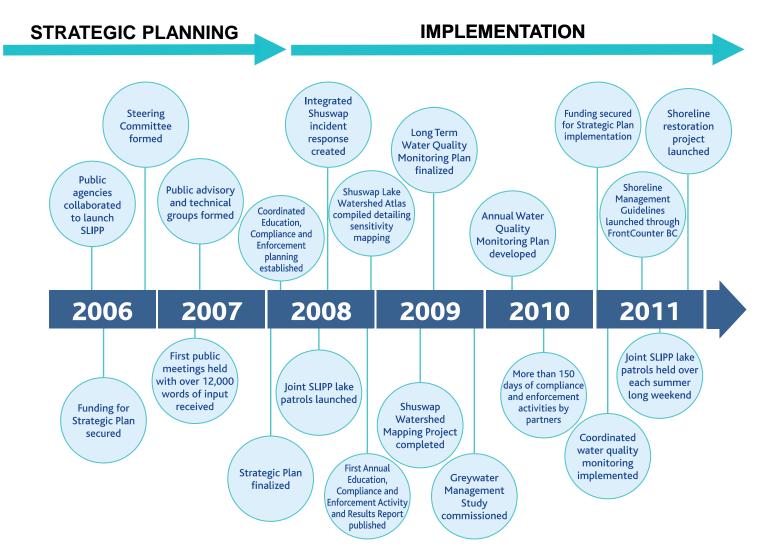




- The Shuswap Lake Integrated Planning Process
- A watershed-wide integrated planning and management initiative:
  - Coordinated planning and delivery
  - Innovative projects and research
- Involves public, First Nations, business and public agencies
- SLIPP developed a foundational Strategic Plan to address key issues
- Plan aims to:
  - Increase public safety on the water
  - Ensure a healthy shoreline and environment
  - Maintain high water quality
  - Create economic and recreation opportunities









## 100% of the strategies in SLIPP's Strategic Plan are being implemented

Goals	Development that respects the environment, as well as economic and social interests	Water quality that supports public and environmental health	Desirable recreational experiences that are safe and sustainable	
Strategies	<ul> <li>Create a comprehensive foreshore and upland area site sensitivity map for Shuswap and Mara lakes</li> <li>Form the Inter-Agency Technical Committee to manage cross- agency development applications and lake issues</li> <li>Improve the development application review process</li> <li>Create a model for assessing cumulative impact</li> </ul>	evelop an inter-agency water quality monitoring and reporting program Eliminate boat discharge on the lakes	Develop a recreation management plan for the Shuswap and Mara lakes  Develop a recreation use monitoring and reporting program	
0	and Scientific Advisory annu Group comp	integrated responding	Engage stakeholders in education, compliance and enforcement initiatives	



# SLIPP complements and enhances existing planning processes and involves a range of stakeholders





# 2012 - 14 Steering Committee Membership

SLIPP Partner	Steering Committee Representative			
City of Salmon Arm	Mayor Cooper			
Columbia Shuswap Regional District	Board Chair Bacigalupo			
	Director Martin			
	Director Morgan			
	Director Talbot			
District of Sicamous	Mayor Trouton			
North Okanagan Regional District	Director Cyr			
	Director Pearase			
Shuswap Nation Tribal Council	Councillor Arnouse			
	Dave Nordquist			
Thompson-Nicola Regional District	Director Anderson			
	Director Milobar			
SLIPP Public Advisory Committee Rep	Ray Nadeau, Shuswap Water Action Team			
SLIPP Technical Team Rep	To be confirmed			



In 2011, new SLIPP funding for a 3 year pilot project was committed by the CSRD, Salmon Arm, Sicamous and the TNRD, in addition to ongoing funding from agencies – estimated at over \$.5 million a year

SLIPP activities	Expenses	Funding and in- kind support	New SLIPP Funding	
Shoreline Development	\$150,000	\$100,000	\$50,000	
Water Quality	\$280,000	\$150,000	\$130,000	
Recreation Management	\$105,000	\$70,000	\$35,000	
Compliance and Enforcement	\$185,000	\$150,000	\$35,000	
Stakeholder Communication and Education	\$85,000	\$40,000	\$45,000	
Admin, meetings, reporting, expenses	\$85,000	\$45,000	\$40,000	
Total	\$890,000	\$555,000	\$335,000	



# **Annual SLIPP Funding Calculations**

## Allocation of SLIPP Funding - by Residential Parcels

Area	Residential Parcels	Percentage	2011	2012	2013	Totals	2011 %
TNRD (fixed 3 years)			53,600	53,600	53,600	\$160,800	16.0%
Salmon Arm (fixed year 1) Sicamous (fixed year 1) Area E (fixed 3 years) (Gas Tax)			20,000 2,500 20,000	20,000	20,000	\$20,000 \$2,500 \$60,000	6.0% 0.7% 6.0%
Sub - Total			96,100	73,600	73,600	\$243,300	
Balance remaining to be divided up amongst:			238,900	261,400	261,400	\$761,700	
* Area C (Gas Tax) * Area D (Gas Tax) (Fixed) * Area F (Gas Tax)	5,967 1,678 4,194	50% 14% 35%	129,269 25,000 84,631	143,799 25,000 92,602	143,799 25,000 92,602	\$416,866 \$75,000 \$269,834	38.6% 7.5% 25.3%
	11,839	100%					
Total Allocations			335,000	335,000	335,000	1,005,000	100.0%

<sup>\*</sup> Percentage of Remaining Cost calculated on 2010 # of Residential Parcels



# Sustainable Shoreline Development Annual Summary

Sicamous Narrows Project

Foreshore Restoration Project

> Literature Review of Fish Habitat

**DEVELOPMENT** 

that respects the environment as well as economic and social interests

Improved
Development
Application
Process

Shuswap Lake Watershed Atlas

Shoreline
Management
Guidelines
for Fish and
Fish Habitat

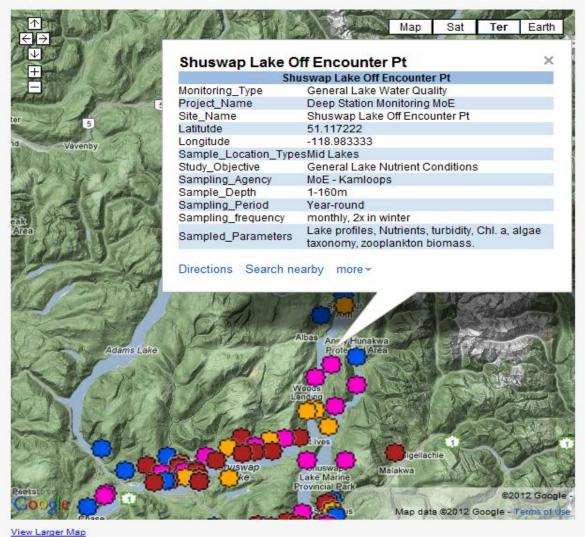


# Water Quality Annual Summary





## Water Quality Map - Interactive and on-Line



## Legend

- Near Shore Water Quality monitoring sites
- General Lake Water Quality monitoring sites
- Watershed monitoring sites
- Special Studies monitoring sites



# Recreation Management Annual Summary





# Education, Compliance and Enforcement Annual Summary





# E, C & E Activities Support all SLIPP Goals

The first priority is outreach and education, followed by compliance promotion and finally enforcement, when necessary





## **SLIPP Website**

Observe a violation?
Report it to the RAPP Line





## Welcome to SLIPP

### Shuswap Lake Integrated Planning Process

The Shuswap Lake Integrated Planning Process (SLIPP) brings together communities, First Nations, and public agencies to ensure that the Shuswap watershed remains a great place to live, work, and play. SLIPP was launched in response to intense pressures from increased development, pollution entering the lakes, and conflicting demands on recreation resources. Working in partnership on innovative approaches and projects, SLIPP aims to increase public safety on the lakes, ensure a healthy lake, and create an environment where a diversity of recreational experiences and economic opportunities can be enjoyed by all.

In early 2011, local governments pledged \$1 million to a SLIPP pilot project, including a threeyear commitment from the CSRD and TNRD, and a one-year commitment from the City of Salmon Arm and District of Sicamous. This funding is in addition to ongoing project and inkind funding from SLIPP agency partners.

SLIPP's vision is Working together to sustain the health and prosperity of Shuswap and Mara Lakes. It has three coals that it works toward:

Development that respects the environment as well as economic and social interests Water quality that supports public and environmental health

Desirable recreation experiences that are safe and sustainable

To know more about SLIPP, click on the  $\underline{\mbox{About}}$  tab.

**SLIPP Project Updates** 

### NEW! Water Quality Monitoring Map for Shuswap and Mara Lakes

SLIPP partners have created an online, interactive <u>Water Quality Monitoring Map</u>. Check It out to see what is being monitored at various locations around the Shuswap watershed!

Stay tuned - In the near future, SLIPP partners will also be posting links to water quality test results.

## Notice of all-committee meeting

There will be an all-committee meeting on Thursday, April 12th. Please RSVP to Info@slippbc.ca.

Click <u>here</u> for more information. See you there!

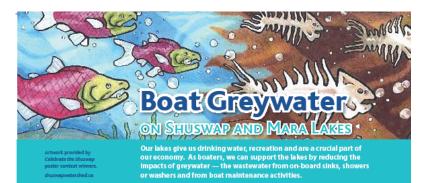
## Planning a project near Shuswap shorelines?

Follow these three steps:

- Contact your local government and
   FrontCounter BC before you begin regulations
   and bylaws may apply
- 2. Consult a Qualified Environmental Professional



## **Brochures**



The Shuswap Lake Integrated Planning Process (SLIPP) brings togethe communities. First Nations and public agencies to make the Shuswap watershed a great place to live, work and play. Working in partnership on innovative approaches and projects, SLIPP aims to increase public safety on the water, ensure a healthy lake and create an environment where a diversity of recreational experiences and economic opportunities can be enjoyed by all.

For more information about boat greywater in the Shuswap area, visit slippbc.com

## What's the problem with dumping greywater from boats?

Oreywater contains bacteria, viruses and chemicals that can pose a threat to human health and the lakes. These materials wash off our bodies, food and clothing and are contained in the cleaning and cosmetic products we use Although it may seem harmless, with contaminants like phosphate, chlorine, salts, metals, and endocrine disruptors, this soepy water can pollute ecosystems. Because many boats are not equipped with holding tenks, greywater flows untreated from sinks and showers into our local watership.

#### What can boaters do to reduce greywater impacts?

#### Be aware — know your plumbing and how wastes are stored or discharged

- If you have greywater tanks, use available pump-out facilities to dispose of waste rather than dump to the lake.
- Seal off, remove or otherwise prevent the use of heads, galleys, sinks, showers, etc. where holding tanks are not possible, or where pump-out facilities are not available.
- Many boats can be retrofitted to include a greywater holding tank or to route greywater to the toilet waste holding tank.

## Use shore-side facilities

- For shorter day trips, bring your dirty dishes home to wash.
- When possible, take showers on land.
   Save your laundry to do after the holidays.

- Use onboard facilities with care

   Shower and wash dishes when well away from
- Shower and wash dishes when well away from the shoreline and bays, evoiding residences, beaches and areas where people could be using the water to drink, swim, wakeboard, etc.
- Use phosphate-free & non-toxic soaps

   Check product labels and avoid cleaners that
- advise "do not get in eyes" or "always wear gloves;" these products are more likely to harm you and the environment.

### Use alternative cleaners

 Baking soda, lemon juice, and vineger can perform as well as commercial products without harmful by-products.

#### Use less product

 A little cleaner can go a long way, especially when combined with a bit of elbow grease. Wash decks and hulls frequently with fresh water to avoid the use of harsh, corrosive cleaners.



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- Prevent oily discharge from the bilge: Keep your engine well tuned to prevent fuel and oil teals. Place oil absorbent pads where drips may occur and in your bilge. Check the pads often and dispose of them at your marina or waste collection center.
- Spill-proof your oil changes: Use an oil change pump to transfer oil to a spill proof container. Wrap a plastic bag or absorbent pad around the oil filter to prevent oil spills.
- Spill-proof fuelling practices: Fill fuel tanks slowly and carefully and use absorbent pads or rags to catch drips and spills. Don't "top off" or overflow your fuel tank and leave 5% empty to allow fuel to expand as it warms.

- Don't add soap: Using soap to disperse fuel and oil spills will harm water quality even more.
- Minimize boat cleaning and maintenance in the water: If possible save maintenance projects for the boatyard. When performing work on the water minimize your impact by containing waste using tarps and vacuum sanders, and collect all drips and debris for proper disposal.
- Stow it, do not throw it! Keep your trash on board. Never throw cigarette butts, fishing line, or any other garbage into the water. Take advantage of shore-side facilities to recycle.
- 7. Reduce toxic discharges from bottom paints: Use hard, less toxic, or nontoxic antifouling paints and follow non-abrasive underwater hull cleaning techniques to prevent excessive paint discharge. Dry storage reduces the need for antifouling paints and saves money.

- Dispose of hazardous waste property: Recycle or dispose of paints, batteries, antifreeze, cleaning products, oil, oil filters and other hazardous wastes at a hazardous waste collection facility or event. Call the BC Recycling Hotline at 1-800-667-4321, go to productcare.org or ask your marina for a location.
- Plan ahead to manage toilet wastes properly: Check with the marina for locations of pumpout facilities. If you don't have an installed toilet use a port-a-potty and empty it at pump out station or shore-side bathroom.
- Reduce your impact and limit greywater discharges: Check out the suggestions on the other side of this page.

For more information about clean and green boating, visit slippbc.com



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