

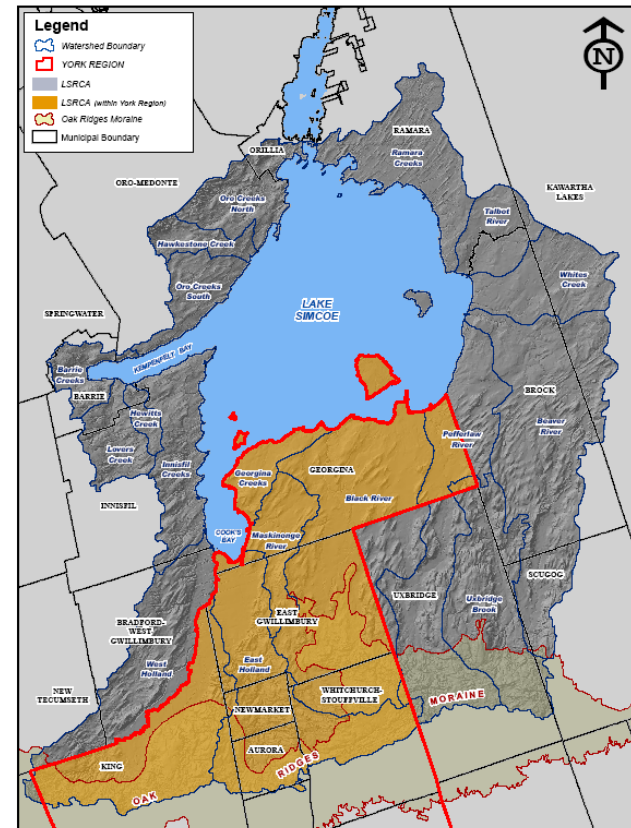
Lake Simcoe Region Conservation Authority



**Presentation to York Region
Finance and Administration Committee
January 8, 2009**

LSRCA Watershed

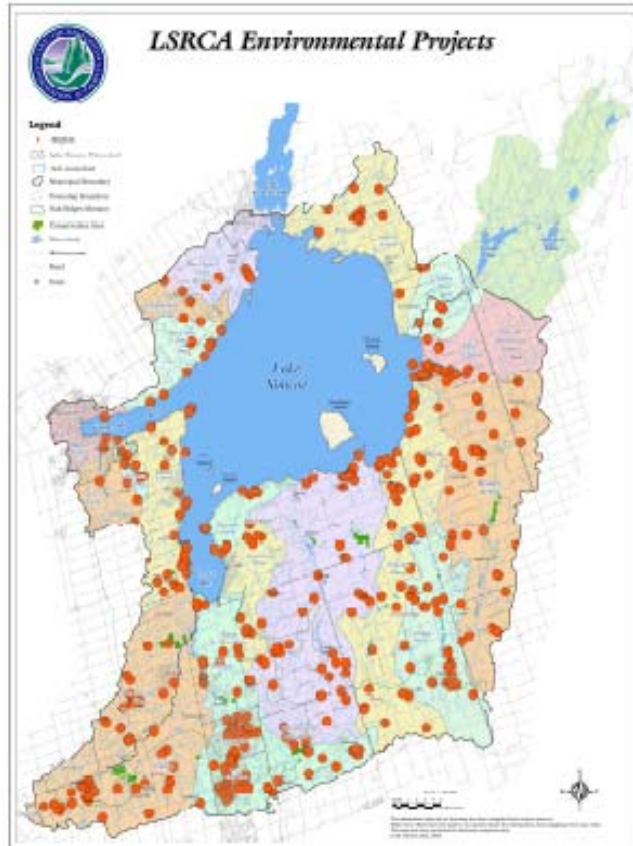
- 3,500 square km watershed
- 35 rivers and creeks
- 23 municipalities
- \$200 million recreational resource
- source of drinking water for 8 municipalities
- assimilates waste from 15 treatment facilities



Working with our partners



The State of the Watershed



- More than 950 projects since 1989

Some recent encouraging signs

- *phosphorus levels decreased*
- *dissolved oxygen increased*
- *lake trout surviving to adulthood*

The landscape is changing as land use pressures increase

The watershed must accommodate more infrastructure

- *surface water run-off*
- *effluent discharge*
- *drinking water supply*

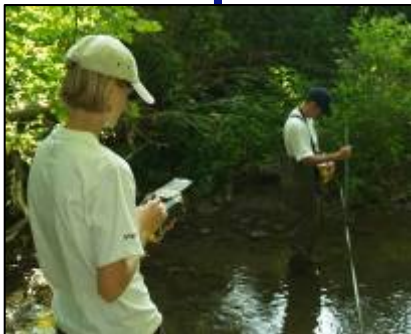
A healthy watershed needs:

protection so that, with growth, balance remains sustainable
restoration to undo damage of neglect



Programs & Services

Science & Research



Protection & Restoration



BEFORE



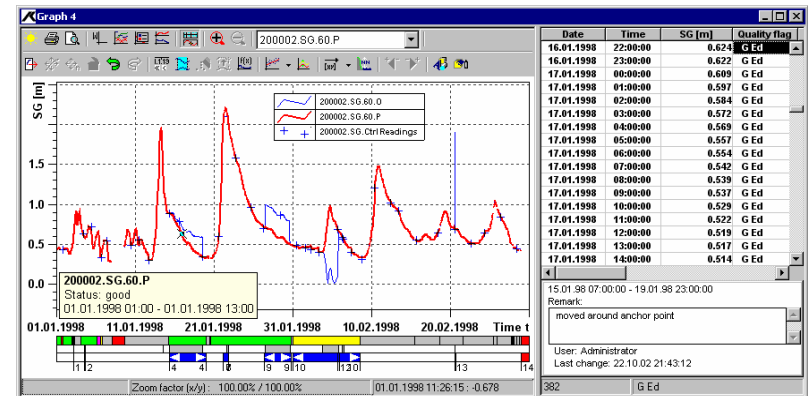
AFTER

Education & Outreach



Science & Research

- Watershed health monitoring
- Floodline / natural hazard mapping
- Natural heritage mapping & systems
- Subwatershed plan: implementation and monitoring
- Source water protection
- Projects and studies:
 - Near shore monitoring, Atmospheric deposition, Phoslock, Assimilative Capacity Study, Stormwater retrofit opportunities, Natural Capital Ecosystem Services Valuation
- Watershed report card



Protection & Restoration

- Environmental Planning & Regulations
- Erosion & Flood Control Structures
- Flood Forecasting & Warning
- Phoslock Pilot Program
- Water Quality Improvement Program
- Land Securement & Management
- Stewardship & Forestry



Phoslock application at Cane Parkway, Newmarket



Phoslock Pilot Program



Education & Outreach

- Place-based environmental education
 - Professor E.A. Smith Education Centre
 - \$600,000 operation self-supported by generated revenues
 - Nearly 8,000 students per year
- Educational Outreach and Engagement
 - In schools and at community events
 - Nearly 4,000 students per year in school classrooms
 - Approximately 20 major events per year
 - Public forums, workshops and open houses



Education Centre



In-class education



Key Accomplishments to date - 2008

- **128 restoration projects within York**
 - An additional 93 projects approved
 - Total value exceeding \$2.1M (Includes \$900K for 2 storm water management ponds approved to proceed in Aurora)
 - Municipal dollars leveraged with landowner contributions / LSCF/ LSCUF
- **LSEMS – Lake Simcoe Protection Act**
 - Co-chairing the provincial Stakeholder Advisory Committee
 - Direct support to the provincial Science Advisory Committee
 - Support municipal process and local program delivery
- **Watershed planning**
 - Initiated Natural Heritage Phase II in East Gwillimbury
 - Completion of the Lake Simcoe Stormwater Management and Retrofit Opportunities report
 - Completion of draft comprehensive basin wide plan
- **Watershed monitoring**
 - Web access to data from monitoring stations
 - Development of virtual gauges for all sub watersheds in York Region
- **Priority greenlands securement**
 - Partnered with York Region, Nature Conservancy of Canada and landowners to secure 98.4 ha of environmentally sensitive lands



Special Capital Funding

Special Capital Programs	2008 funding approved	2009 (incl. in approved Regional capital budget)	2010 projected	2011 projected	2012 projected
LSEMS - Lake Simcoe Protection Act	\$112,719	\$113,680	\$117,090	\$120,603	\$124,221
Basin-Wide Initiatives	\$72,015	\$173,678	\$178,888	\$184,255	\$189,782
Water Quality Improvement Program (LSWQIP-LEAP)	\$419,577	\$432,164	\$440,186	\$462,196	\$485,305
Water Monitoring	\$298,948	\$301,212	\$310,249	\$319,557	\$329,143
Natural Hazard Modeling & Mapping	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Natural Heritage Mapping & Systems	\$50,643	\$47,367	\$48,788	\$50,251	\$51,759
Flood Forecasting & Warning Network	\$10,958	\$65,623	\$67,592	\$69,620	\$71,709
Subwatershed Plan - Implementation & Monitoring	\$250,000	\$253,000	\$256,036	\$259,108	\$262,218
Conservation Area Management Planning & Coordination	\$63,006	\$62,399	\$64,271	\$66,200	\$68,186
Conservation Authorities Moraine Coalition	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Program Information Management	--	--	\$74,126	\$76,350	\$78,640
Natural Partnership - Reforestation	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Summary of proposed funding	<u>\$1,352,866</u>	<u>\$1,524,123</u> **	<u>\$1,632,226</u>	<u>\$1,683,140</u>	<u>\$1,735,963</u>

** Contained in total Regional 2009 capital budget approved by council on December 18, 2008;
 Funding is enhanced significantly by leveraging federal funding available;
 Supports the ability to plan for and provide input into the Lake Simcoe Protection Act and Plan



Lake Simcoe Clean Up Fund & Federal \$

- \$30M available to be expended over 5 years
- 2 phases per fiscal year
- Total approved projects in Phase I of 2008 - \$3.6M
- Total approved projects in Phase I of 2008 in York Region - \$1.3M
- Total federal funds in Phase I of 2008 supporting projects in York Region - \$568,595



Walter Drive Erosion Control Project
Georgina



Operating Budget

Programs and services include:

- Continued implementation of PSAB Tangible Capital Asset reporting requirement
- Environmental plan review including Department of Fisheries and Oceans level III, and storm water management
- Issuance of permits
- Enforcement of regulations
- Technical advice regarding water quality/quantity issues
- Flood forecasting and warning
- Education Programs
- Administrative services



2009 Proposed General Levy

Year		Proposed Amount	Percent Change
2008	Approved	\$1,611,240	--
2009	Proposed (total inclusive of debt reduction on forgivable loan)	\$1,694,492	5.1%
2010	Projected	\$1,782,740	5.2%
2011	Projected	\$1,876,282	5.2%
2012	Projected	\$1,975,437	5.3%



2009 Net Operating Pressures

	<u>\$ 000</u>
Enhancements	\$ -
Growth	\$ -
Annualization	\$ 17
Mandatory/Legislative	\$ -
Efficiencies	\$ (-)
Base	\$ 66
Total	<u>\$ 83</u>



Priority Highlights for 2009

- Continued input and support: Lake Simcoe Protection Act and Plan
- Phosphorus management studies and planning
- Lake research including near-shore monitoring project
- Development of growth-related policies (following ACS)
- Drinking Water Source Protection
- Conservation Area Management Planning
- Water Quality Improvement Program



**Thank you for your continued
partnership and support**

