

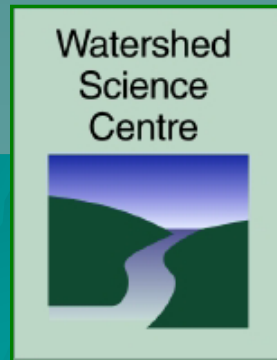
# Protection of Lake Ontario Drinking Water

An overview of Trent University's  
involvement and capacity in  
source water protection

*Watershed Science Centre*

*Trent University*

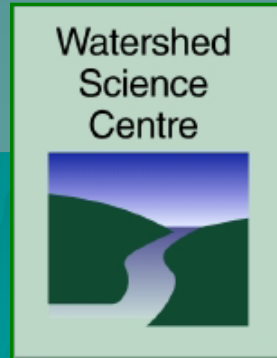
*June, 2007*



# History

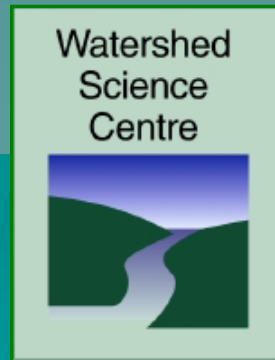
## Watershed Science Centre (WSC)

- ◆ Established July 1<sup>st</sup>, 1998
- ◆ Institutional Partnership:
  - a. Trent University
    - Expertise in watershed science
  - b. Sir Sandford Fleming College
    - Resource management and GIS
  - c. Ontario Ministry of Natural Resources
    - Resource management & policy development



# Changing Mandate of WSC (2006)

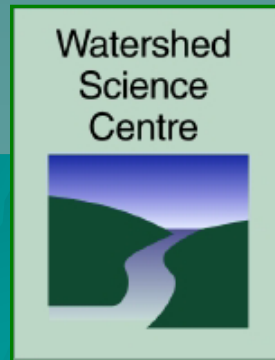
- ◆ Ontario Ministry of Environment added as full partner of WSC in 2006
- ◆ OMOE & OMNR negotiated a change to WSC mandate to include a focus on Source Water Protection
- ◆ Memorandum of Understanding (MOU) developed for WSC (2006-07 fiscal year)
  - Identification of strategic research needs related to SWP in Ontario



# Source Water Protection focus of 2006 MOU

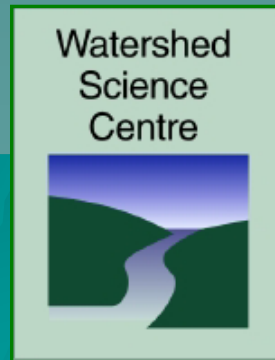
The terms of reference for the Watershed's MOU identified research needs in four specific theme areas:

- **Theme 1:** Intake protection zones (IPZs), with a focus on Great Lakes IPZs
- **Theme 2:** Land use impacts on watershed level SWP
- **Theme 3:** Watershed scale risk mitigation techniques
- **Theme 4:** Water quantity management

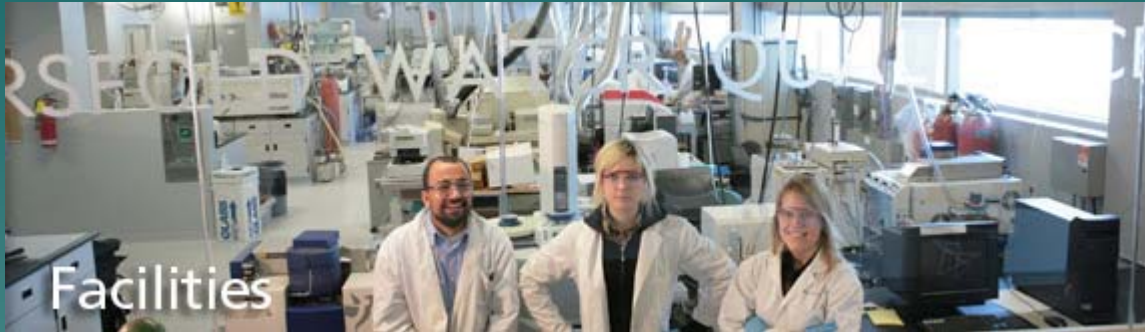


# Role of Watershed Science Centre

- ◆ Workshops with SWP experts and practitioners to identify research needs (September-October 2006, completed)
- ◆ Information gathering to refine research needs (November 2006 – February 2007, completed)
- ◆ Recommendations to OME and OMNR on research needs (nearing completion)
- ◆ Conduct targeted research:
  - ◆ Spatial analysis tools
  - ◆ Groundwater recharge
  - ◆ Wetland BMPs



# Research Facilities at Trent



Worsfold Water Quality Centre (3200 sq ft)

- pharmaceutical and personal care products
- high precision isotope analysis
- high sensitivity elemental and Speciation Analysis

Watershed  
Science  
Centre

