

STRATEGY FOR PROTECTING OUR DRINKING WATER SOURCES

Presentation to Transportation and
Works Committee

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February 4, 2009

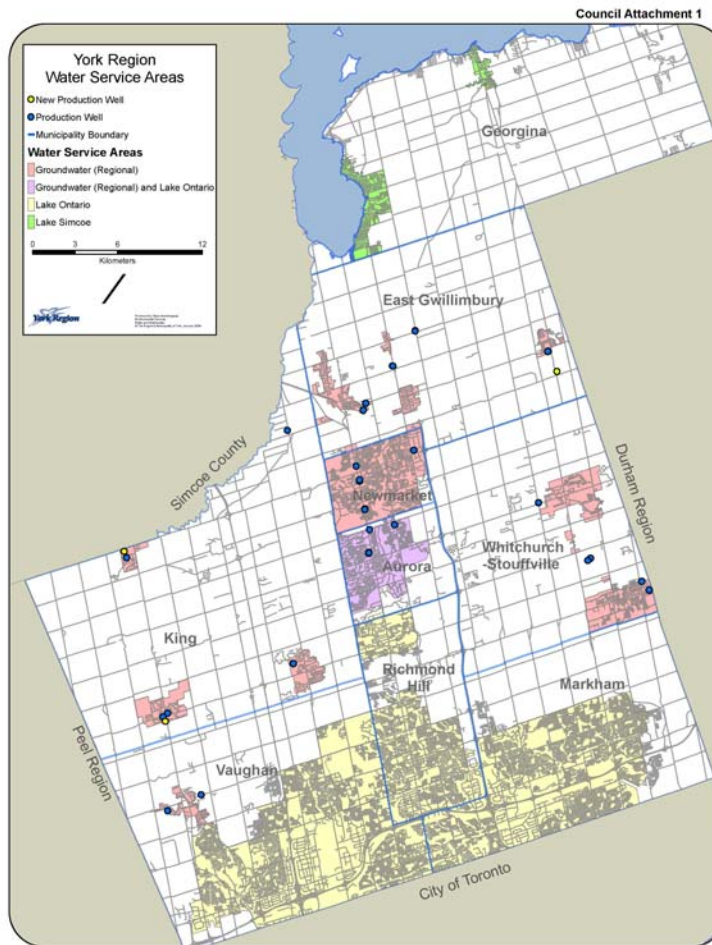


Source Water Protection

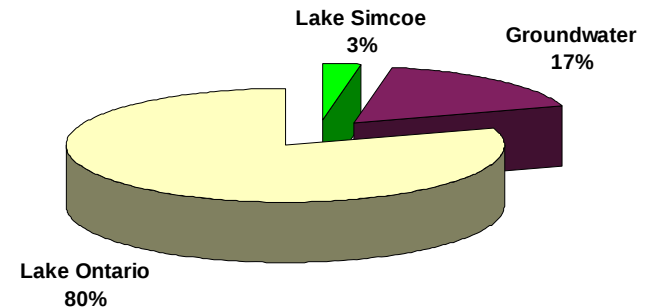


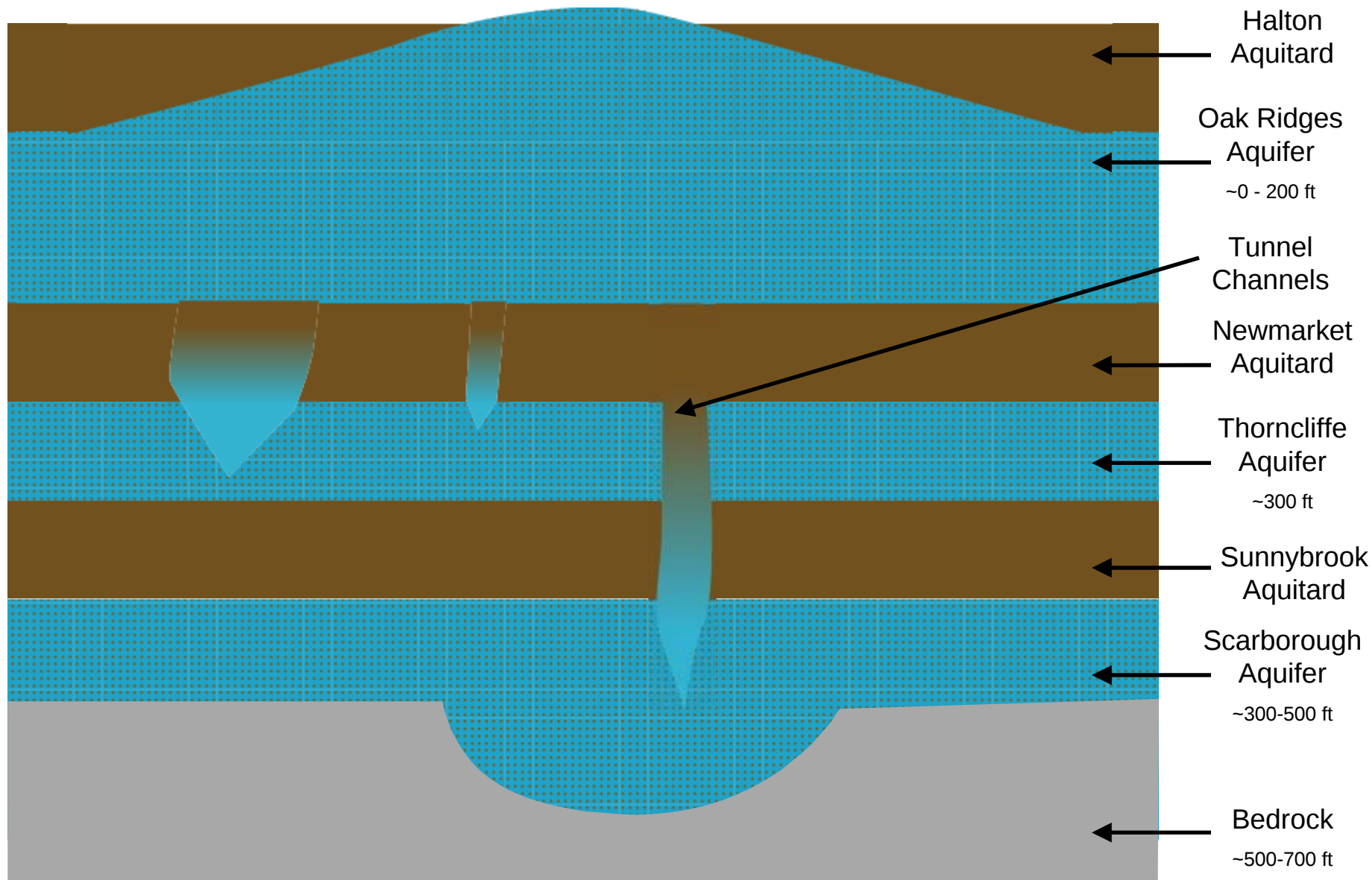
- ❑ Background
- ❑ Protection Zones
- ❑ Source Protection
- ❑ Ontario Drinking Water Stewardship Program

Our Sources of Drinking Water



- ❑ 40 groundwater wells
- ❑ 2 surface water plants
- ❑ 2 connections to Lake Ontario
 - ❑ Region of Peel
 - ❑ City of Toronto





Clean Water Act, 2006



Source Protection work underway

1. Terms of Reference (2008)

- ❑ Defines the work, who does the work, estimates costs (~\$14 million for Source Protection Regions)

2. Assessment Report (early 2010)

- ❑ Defines the protection areas and risk assessment

3. Source Protection Plan (~2012)

- ❑ Defines actions required to reduce significant risks
- ❑ Implementation of stewardship (~\$28 million from Province until 2011)

First Barrier of Protection

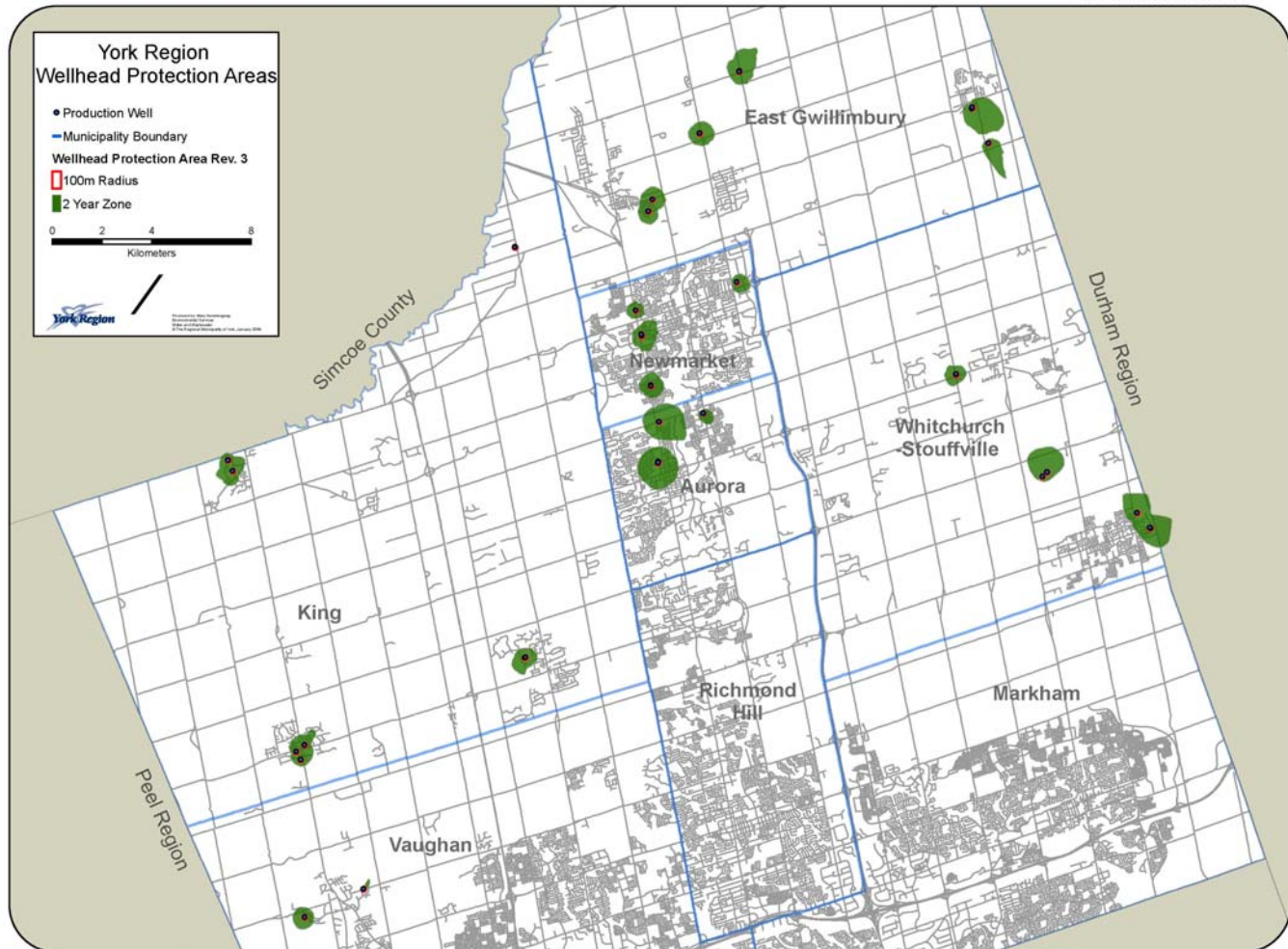


Protection zones identify areas closest to the drinking water source

- ❑ Types
 - ❑ Groundwater – Wellhead Protection Area
 - ❑ Surface Water – Intake Protection Zone
 - ❑ Others in Development
 - ❑ Significant recharge areas
 - ❑ Highly vulnerable aquifers

Protection Zones Identify Areas That May Be At Risk

Council Attachment 2

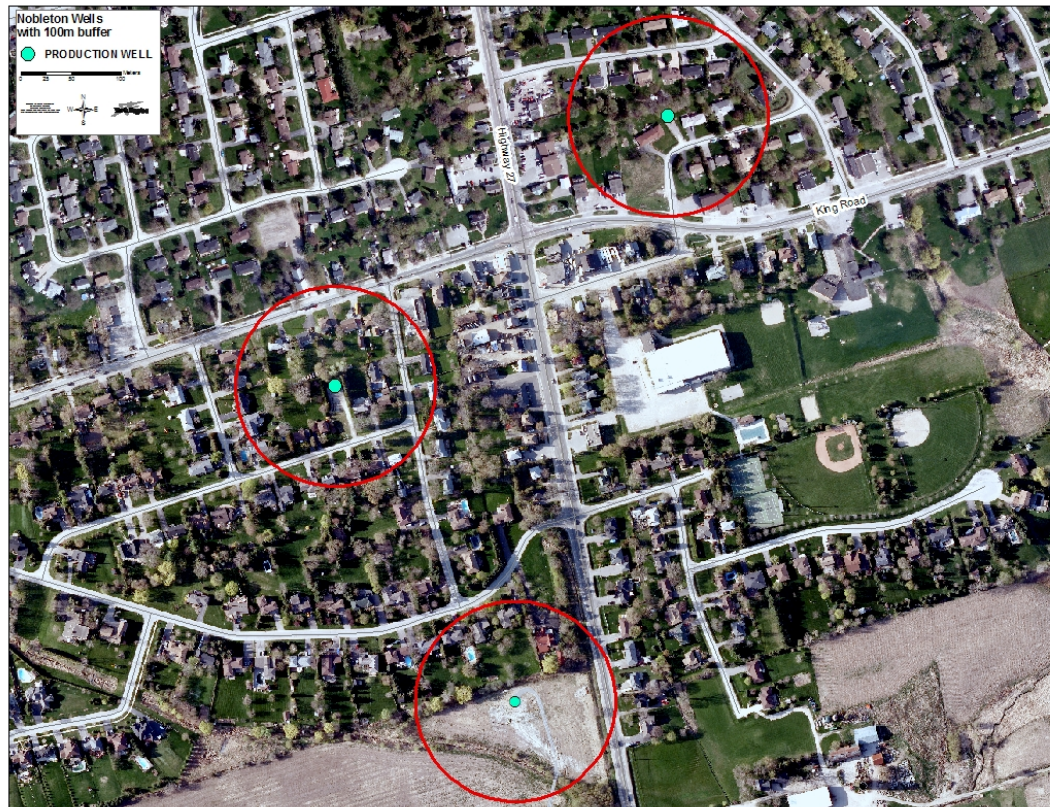


Transportation and Works, February 4, 2009

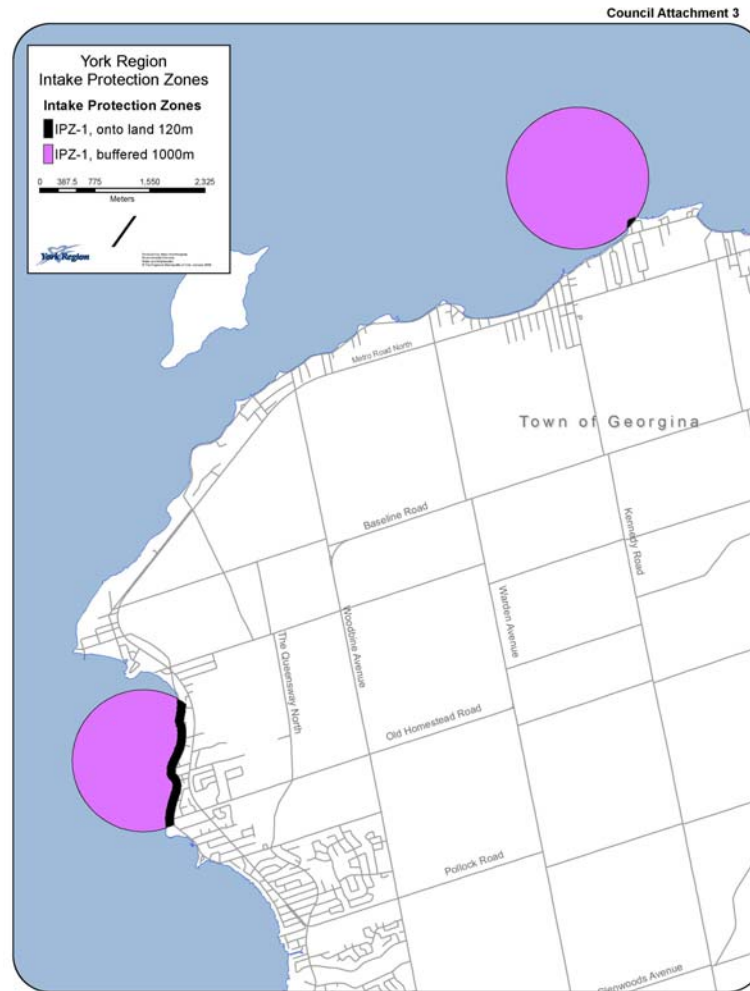
Slide 7

Protection Zones Identify Areas That May Be At Risk

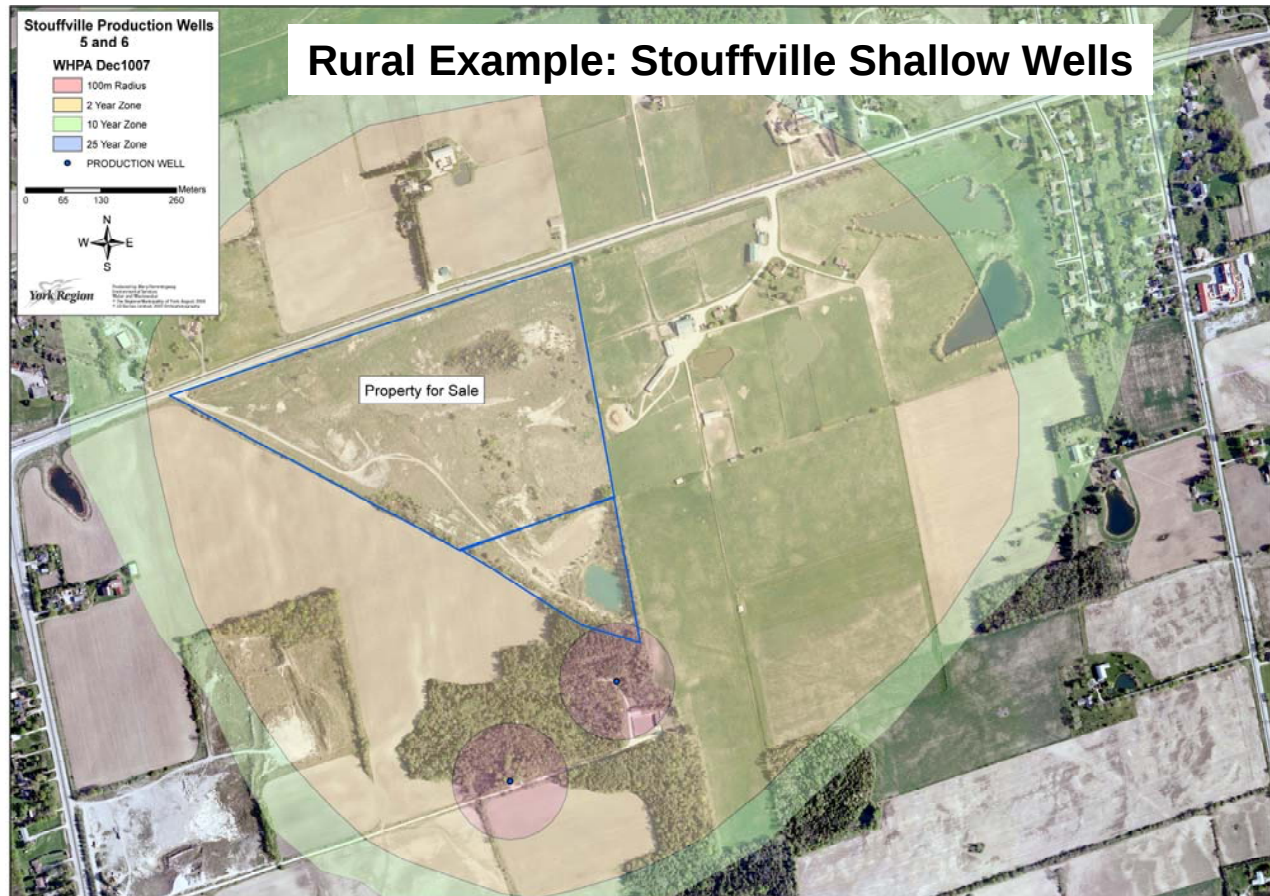
Nobleton – 100 m Wellhead Protection Area



Intake Protection Zones Lake Simcoe

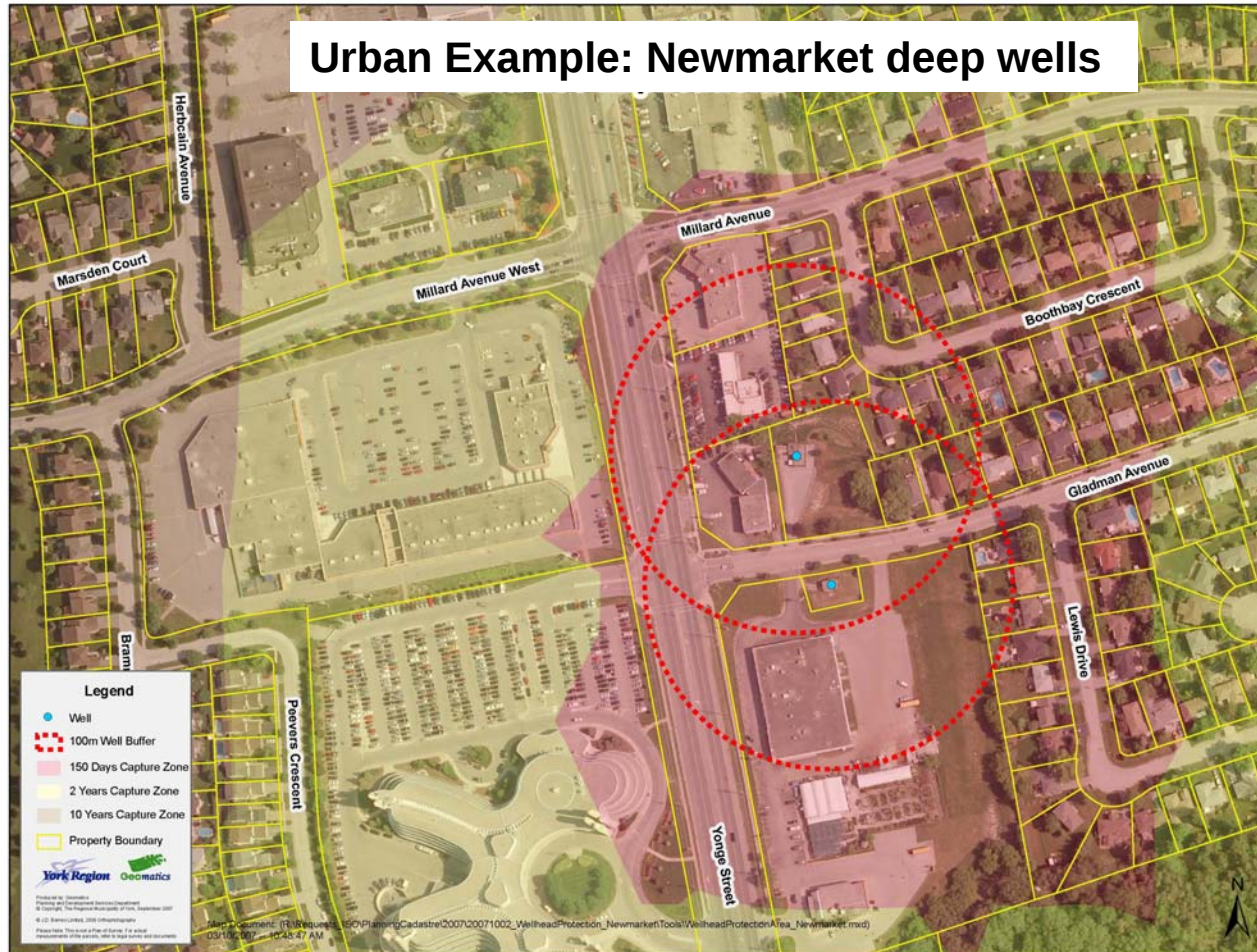


Protection Areas Focus Action

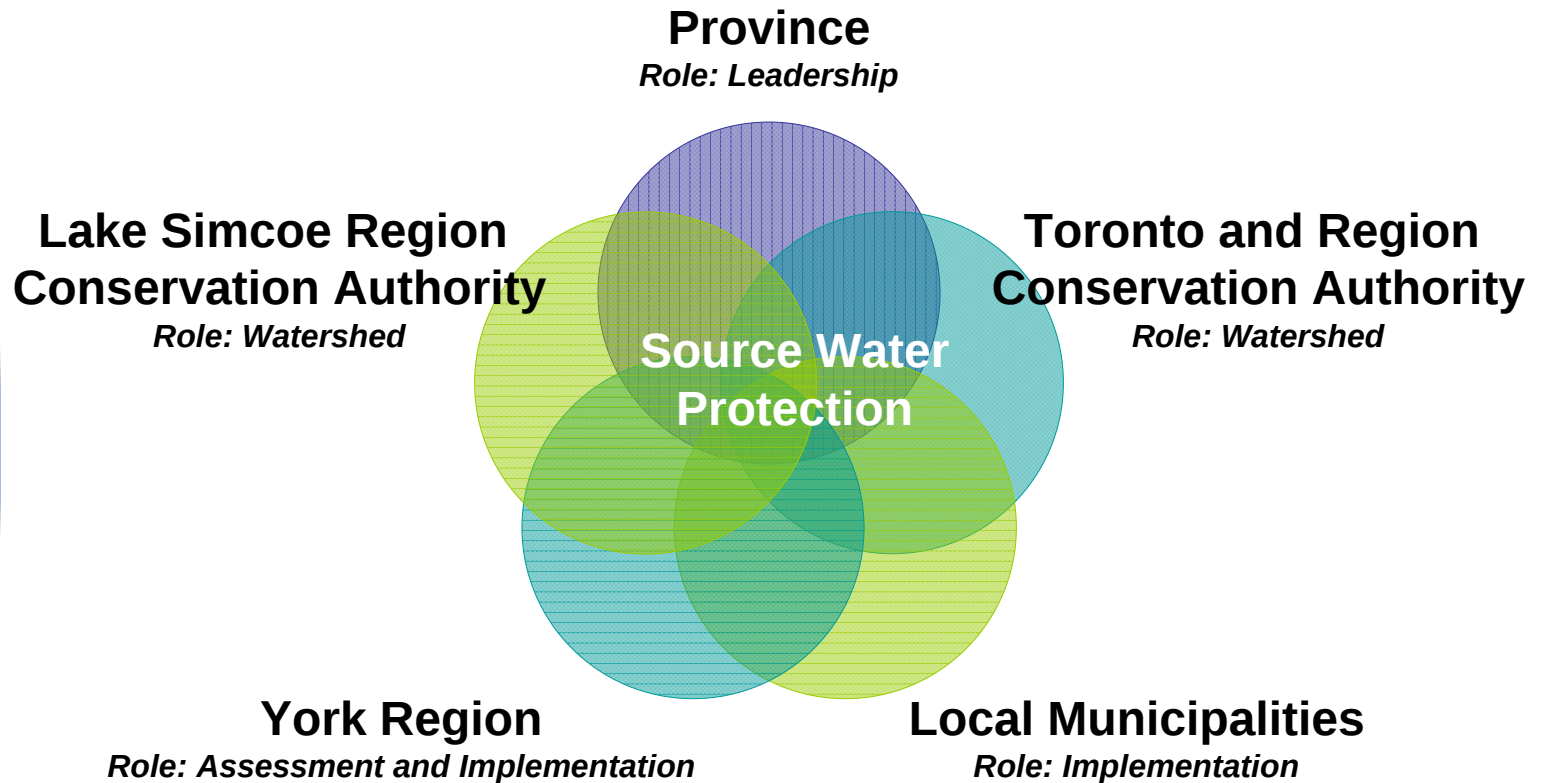


Protection Areas Focus Action

Urban Example: Newmarket deep wells



Collaboration Delivers Results



Our Source Protection Strategy



Three strategic theme areas:

- ❑ Reliable supply without impairment of the natural environment
 - ❑ Extensive Monitoring Program
- ❑ Limit high risk land use activity
 - ❑ Official Plan Policies
- ❑ Continuous advancement in science
 - ❑ YPDT Groundwater Program
 - ❑ Education and Outreach Program
 - ❑ University Research Projects

Council Endorsement Required To Activate Funding

Ontario Drinking Water Stewardship Program

- ❑ Available to property owners, municipalities
- ❑ Funding available within 2 year Wellhead Protection Area or Intake Protection Zone 1
- ❑ Cost sharing 30-100% depending on project
- ❑ Administered by Conservation Authorities
- ❑ Actions target high risk activities



Council Endorsement Required To Activate Funding

Stewardship *Early Action* Projects

- ❑ Well upgrades and decommissioning
- ❑ Septic system upgrades and repairs
- ❑ Runoff and erosion measures
- ❑ Pollution prevention review for small and medium sized businesses
- ❑ Purchase of lands
- ❑ Fuel storage
- ❑ Agricultural activities including manure storage, handling and treatment



Endorsement Initiates Funding



- ❑ Transfers of Provincial funds for protective measures
- ❑ Expands current programs
- ❑ Focuses efforts in key areas
- ❑ Provides mutual benefit

Endorsement activates real action!