



Environmental
Project Management &
Sustainability Solutions

ONTARIO CLEAN WATER ACT



FROM CONCEPT TO PLAN



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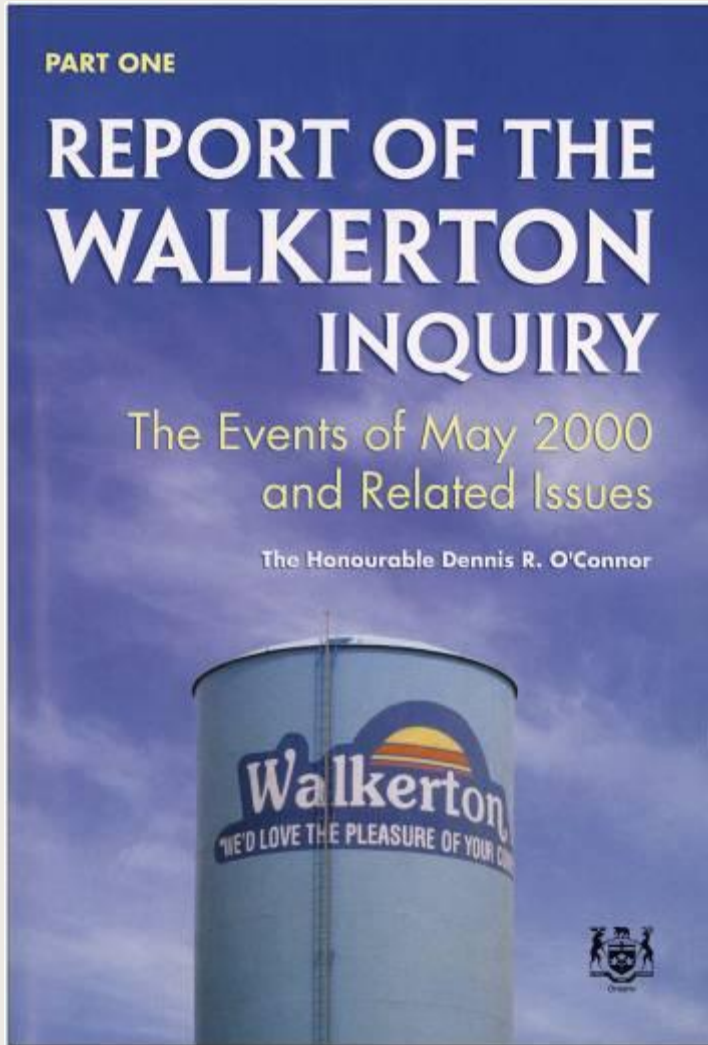
*Providing a Path to Organizational Project Management &
Sustainability Maturity.*

Presenter: **Greg Philliban**, CPM., CIF., PMP



Origins of source protection planning in Ontario Crisis in Walkerton:

- **Inquiry into the events at Walkerton, where contaminated groundwater was responsible for widespread illness and several deaths.**





Implementing Recommendations

A Watershed Example





Ontario Clean Water Act

Received Royal Assent Oct 2006

**\$120 million over 5 years committed
to technical studies and
development of SWP plans across
the province**





Creating the Source Protection Plan

- Agreement among the people and municipalities of a watershed about the ways to protect water quality and quantity
- Looks at land use across the watershed to assess the impacts on source water
- Provides information to municipalities who decide land use zoning and must provide clean, safe water to residents



Source Water Protection Plan Flow





Source Protection - Approach

Take a preventive approach to ensure that future activities in each watershed, potentially including development, minimize threats to the drinking water supply.

Based on sound science:

Identify the intake protection zones (IPZ) and wellhead protection areas (WHPA)

Compile and analyze existing data about watersheds including: natural features, human settlement, water use, and potential water issues.



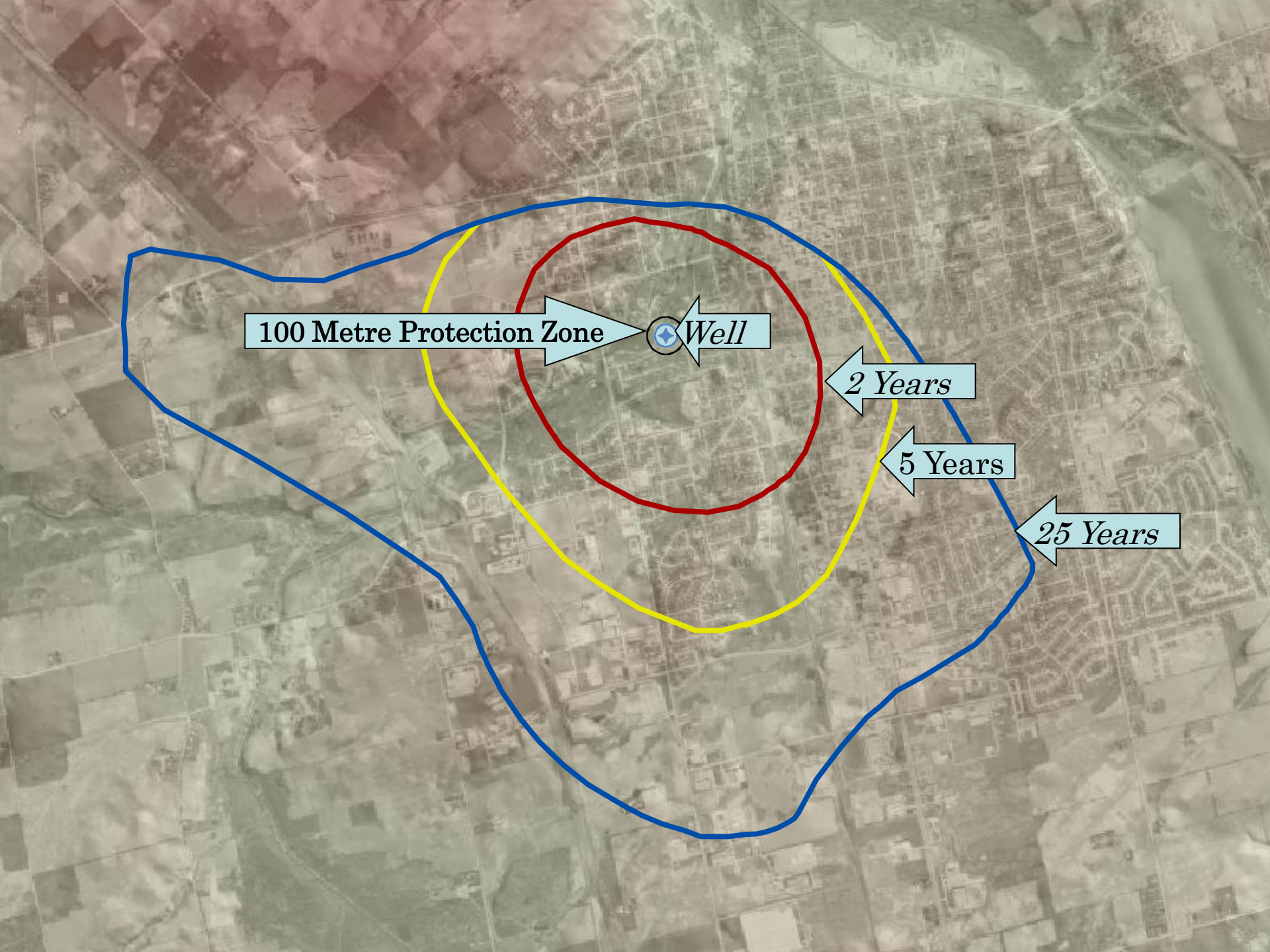
Source Protection

Issues, threats & risks

Identify and inventory threats to drinking water sources within the vulnerable areas such as IPZs and WHPAs

Assign risk rating based on MOE guidance

- Level of risk is calculated taking both the threat rating and the vulnerability (proximity to vulnerable area) into account.



100 Metre Protection Zone

Well

2 Years

5 Years

25 Years

SWP Project - Organization

Project Sponsor

- Ontario Ministry of the Environment

Project Partner / Delivery Organization

- Ontario Ministry of Natural Resources / Conservation Ontario

Project Delivery Agent

- Conservation Authorities



SWP – Delivery Agent Background

Conservation Authorities (CA's)

Established 56 years ago as a result of Hurricane Hazel hitting southern Ontario (October 15, 1954)

Based on watersheds

- 39 Watersheds in Ontario
- 19 assigned to lead SWP project across Ontario



SWP –Project Description

Conservation Authority Responsibility

Purpose

Develop a source water protection plan designed to minimize the impact that human and natural activities have on the quality and supply of our water resources.

Objective:

Coordinate a multi-year planning process involving: municipalities, agriculture, business, public health, community groups, First Nations and local residents.



SWP Project Scope

Establish Source Protection Authorities and Committees

Conduct Public Consultations

Coordinate Municipal Technical Studies

Identify Threats & Issues

Watershed Characterization



SWP Project Scope

Water Budget

Vulnerability Analysis

Assess Water Quality & Quantity Risk

Information Management

Provincial Data Standards

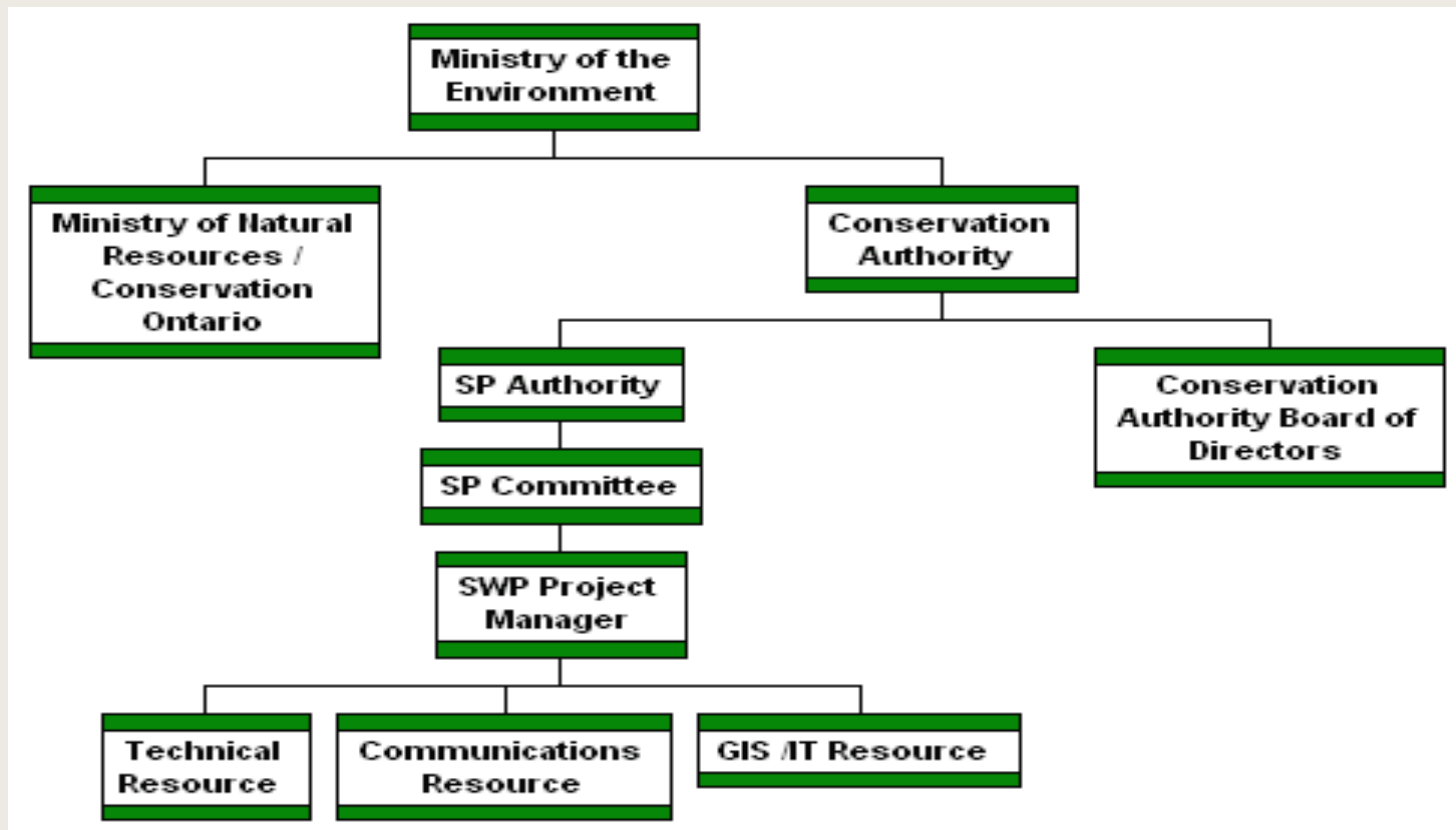
Municipal Water Supply Strategies

Assessment Report



SWP Planning

Project Organization and Decision Framework





SWP Implementation

Municipal responsibility (both implementation and cost).

Official plans to take Source Protection plan into consideration.

Use of existing mechanisms: policies, bylaws, etc...Risk management plans with individual landowners



SWP Project - Update

Plans

Assessment Reports Posted to Conservation Ontario web site www.conservation-ontario.on.ca/ January 2012

Public Consultations Deadline – August 20,2012

Review by Minister and Plan Approvals - August 2012

Implementation - 2013 – 2018



SWP - Update

Funding - Approved

Issues will be scope based on plans

Risk Plans are budgeted

Stewardship / Compensation - ??????

Bulk will be downloaded to municipalities



SWP - Update

Municipal Issues

Have traditionally underfunded infrastructure (political practice)

Users don't understand/ recognize costs of clean water and systems to deliver it



SWP - Update

Summary *

Project is on time

Considering challenges project has been a huge success

Politicians at Province and Municipalities (80%) are on side

Beverly Thorpe, Project Director, CTC Consortium (Credit Valley, Toronto Region, Central Lake Ontario Conservation Authorities, York, Peel, Toronto , Dufferin municipalities)

- Watershed for 9 million Canadians



More Information

SWP Assessment Reports

- Conservation Ontario Web Site

www.conservation-ontario.on.ca/

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