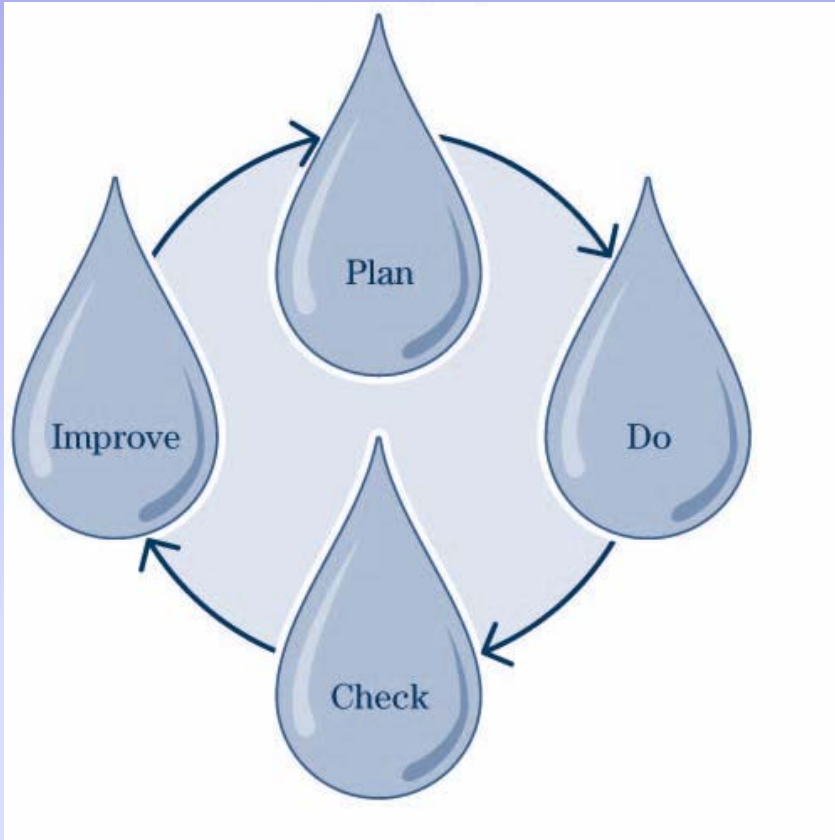


Overview of Drinking Water Quality Management Standard



Presented By:
Meghan Boyd

April 18, 2011



Background

- @ October 2006, the MOE informed Municipalities of their intent to move forward with changes to the approval process for Municipal Drinking Water Systems
- @ Part II of The Walkerton Inquiry, Justice O'Connor recommended that Municipalities adopt a new approvals framework for their drinking water systems



Background

- Ⓢ Requirement to obtain a license & permit applies to owners of Municipal Residential drinking water systems
- Ⓢ A Municipal Water License will be issued by the MOE to Owners once the following criteria have been met:

- ✓ *Drinking Water Works Permit*
- ✓ *Permit to Take Water*
- ✓ *Approved Operational Plan*
- ✓ *Accredited Operating Authority; and*
- ✓ *Approved Financial Plan*



Background

- ⊙ Drinking Water Works Permit
 - Replaces current Certificate of Approval
- ⊙ Permit to Take Water (PTTW)
 - Valid PTTW is required to be in place
- ⊙ Accepted Operational Plan
 - Documents Operating Authority's Quality Management System (QMS)
- ⊙ Accredited Operating Authority
 - 3rd party audit of Operating Authority's QMS
- ⊙ Financial Plan
 - O.Reg 453/07



Drinking Water Quality Management System (DWQMS)

- ⊙ DWQMS establishes a framework for the Owner to develop a Quality Management System (QMS) that is relevant and appropriate for a specific system
- ⊙ Reflects how Owners manage & operate their drinking systems
- ⊙ Requirement that twenty-one elements in the DWQMS be documented in an Operational Plan
- ⊙ Requirement to document that the Municipality is committed to continuously review and improve QMS practices



Licensing of Municipal Drinking- Water Systems Regulation

- ⊗ Ontario Regulation 188/07 specifies dates on or before which Owners of Municipal Residential Drinking Water Systems must:
 - Submit their Operational Plan to the MOE
 - Apply for Drinking Water Works Permit
 - Apply for Municipal Drinking Water License

- ⊗ The Town submitted its Operational Plan in June 2009 and subsequently received its License & Permit in November 2010



Benefits of Implementing DWQMS



- Roles and Responsibilities are more clearly defined



- Requires the development of consistent Policies and Procedures



- Improves communication between Owner, Top Management and Operations



- Continuous Improvement



Who Does DWQMS Impact?

- ⊙ Anyone responsible and/or involved in the delivery of safe drinking water from a Municipal residential drinking water system
- ⊙ This includes the Mayor, Councillors, CAO, Clerk, Directors, Managers and Operators



Standard of Care Provision

- Ⓢ Standard of Care Provisions - Section 19 under *Safe Drinking Water Act* applies to Owner/Council and Top Management within the Operating Authority
- Ⓢ Requires they exercise the level of care, diligence and skill that a reasonably prudent person would expect to exercise in a similar situation
- Ⓢ DWQMS provides Council and Top Management with the tools necessary to continually assess their drinking water systems and help ensure “Standard of Care” Provisions are met
- Ⓢ Section 19 comes into force on January 1, 2013



Operational Plans

- ④ Documents the procedures & processes that are required under the DWQMS
- ④ Provides consistency to operations and management
- ④ Provides procedures to reduce interpretation errors
- ④ Improves teamwork and communications by involving members of the Water Section and Top Management



Implementing DWQMS

Ⓢ Twenty-one elements

Ⓢ Based on the PLAN,
DO, CHECK,
IMPROVE methodology
of Twenty-one
Elements

DWQMS Elements

Element 1 -	Quality Management System
Element 2 -	Quality Management System Policy
Element 3 -	Commitment and Endorsement
Element 4 -	Quality Management System Representative
Element 5 -	Document and Records Control
Element 6 -	Drinking-Water System
Element 7 -	Risk Assessment
Element 8 -	Risk Assessment Outcomes
Element 9 -	Organizational Structure, Roles, Responsibilities and Authorities
Element 10 -	Competencies
Element 11 -	Personnel Coverage
Element 12 -	Communications
Element 13 -	Essential Supplies and Services
Element 14 -	Review and Provision of Infrastructure
Element 15 -	Infrastructure Maintenance, Rehabilitation and Renewal
Element 16 -	Sampling, Testing and Monitoring
Element 17 -	Measurement and Recording Equipment Calibration and Maintenance
Element 18 -	Emergency Management
Element 19 -	Internal Audits
Element 20 -	Management Review
Element 21 -	Continual Improvement



Owner & Operating Authority Responsibilities

- ① Ensure & promote awareness of the DWQMS throughout the Municipality
- ① Communicate with Top Management about the drinking water system and the QMS
- ① Ensure adequate resources are available for the implementation of the DWQMS
- ① Ensure the system is being operated by an Accredited Operating Authority



Top Management Responsibilities

- @ CAO, Director of Engineering & Public Works, Manager of Water/Wastewater
- @ Review and approve documentation
- @ Endorse DWQMS
- @ Determine, obtain or provide resources needed to maintain and continually improve the QMS
- @ Perform Annual Management Review
- @ Provide technical & administrative consultation related to DWQMS document preparation



Commitment & Endorsement

Ⓢ Required to prove commitment to the development, implementation and continual improvement of the QMS

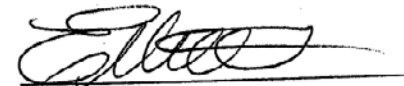
Ⓢ Endorsed and supported by the Town, Mayor, Clerk and Top Management




Element # 3 - Commitment and Endorsement

The Town of the Blue Mountains commits to support the implementation, maintenance and continual improvement of a Drinking Water Quality Management Standard (DWQMS) as is documented in this Operational Plan. Endorsement by the Owner and Top Management acknowledges and supports the provision of sufficient resources to maintain and continually improve the DWQMS.

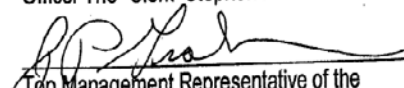
FEBRUARY 3, 2010
Date


Owner and Operating Authority -
On behalf of the Corporation by its Signing
Officer The Mayor Ellen Anderson

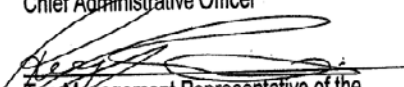
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Owner and Operating Authority -
On behalf of the Corporation by its Signing
Officer The "Clerk" Stephen Keast

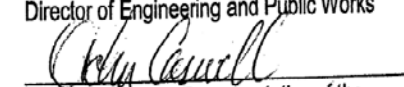
FEBRUARY 3, 2010
Date


Top Management Representative of the
Owner and Operating Authority -
Paul Graham, P.Eng,
Chief Administrative Officer

FEBRUARY 3, 2010
Date


Top Management Representative of the
Owner and Operating Authority -
Reg Russwurm, MBA, P.Eng,
Director of Engineering and Public Works

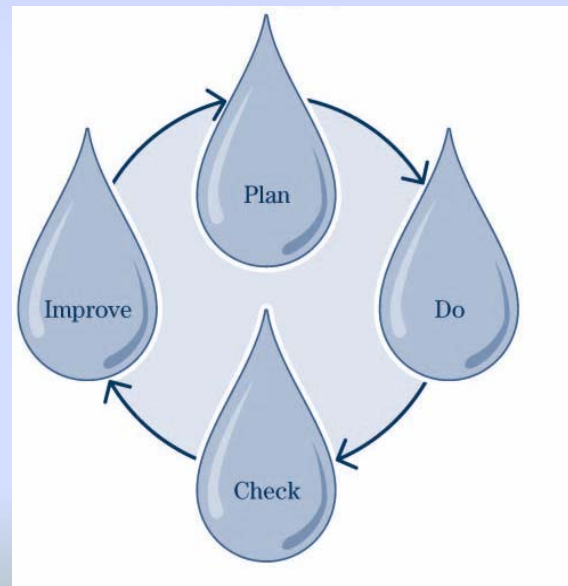
FEBRUARY 3, 2010
Date


Top Management Representative of the
Owner and Operating Authority -
John Caswell,
Manager of Water & Wastewater Services
Division



Continual Improvement

- ⓐ The Operating Authority shall strive to continually improve the effectiveness of its QMS through the use of corrective actions
- ⓐ This is the requirement of the twenty-first and final element of the DWQMS



Financial Plans

- @ Ontario Regulation 453/07
- @ Plan for long-term financial sustainability in order to ensure the safety of drinking water into the future
- @ Must apply for a minimum of six years
- @ Must be approved by Council Resolution
- @ Must provide notice advising the public of the availability of the Plan
- @ Must provide a copy of the Plan to Ministry of Municipal Affairs and Housing by May 2011



Financial Plans

- Ⓢ Summary of various capital and operational programs already approved & implemented by Council
- Ⓢ Considers the funding needs for both Operating and Capital Projects
- Ⓢ Living document which will require regular reviews and updates



Questions & Comments?

