Clean and Safe Drinking Water Workshop - Summary

Gander, March 21st, 22nd & 23rd, 2006

GOVERNMENT OF NEWFOUNDLAND AND LABRADOR
Department of Environment and Conservation

Introductions

- **Welcome and opening remarks**
  - Conference Chair – Ervin McCurdy
  - Claude Elliott, Mayor of Gander
  - and on behalf of NLFM
  - Martin Goebel on behalf of Hon.Clyde Jackman, Minister of Environment and Conservation

Carl Yates, P.Eng

Halifax Regional Water Commission

- **The Provision of Safe Drinking Water; Utility Roles and Responsibilities**
  - Themes…
  - Roles and responsibilities
  - Multi-barrier approach
  - Challenges of requirements of small systems

Reg Bennett

Department of Government Services, OHS Branch

- **The Integration of OHS with Environmental Management Systems**
  - “Safety is a toolbox”
  - Apply lessons learned from one system to another.
  - Accept “Ownership” of Risks
  - Understand the true “Cost to Mission” of risks
  - Manage to reduce safety and environmental risks
  - Build on previous success and learn from previous challenges.

Paula Dawe, P.Eng

Department of Environment and Conservation

- **THM Control using Chlorine Demand Management**
  - THM control through CDM is a workable option when conventional water treatment is not a viable and sustainable option
  - Without source water treatment, only factors controllable are chlorine and contact time
  - CDM is the most cost effective option to help deal with THMs in smaller systems
  - CDM would be our first option for smaller communities with high THMs

Tony Edmonds

Ontario Clean Water Agency

- **Practical pH Adjustment and Corrosion Control**
  - Why is this important?
  - What causes acid water?
  - How to measure acidity
  - Causes of corrosion
  - Various methods to control corrosion

Dr. Syed A. Imran

National Research Council, Canada

- **Water Quality in the Distribution System**
  - "Adopt a researcher"
  - What is a distribution system?
  - Water quality interactions with pipe surfaces
  - Pilot water treatment in Florida
  - Conflicting water quality impacts on different pipe materials
  - "24 Hours"

Brian Pett

5^2 Consulting

- **An Operational View on the Installation of UV Systems… No, it Won't Make You Sterile**
  - Basic UV Theory
  - - Dosage
  - - Disinfection Properties
  - Types of UV systems
  - Considerations
  - Validation
  - Operation
  - Maintenance

John Dickau

Aquatech Diving

- **Water Facility Maintenance using Diving Operations**
  - Types of Reservoirs
  - Importance of Potable Water Diving
  - Safety… Scuba is not safe!
  - Things that can get into the water supply and how to clean
  - Structural problems, security

Herb Card

Department of Environment and Conservation

- **Permits to Operate**
  - Legislation
  - Background
  - What is a Permit to Operate?
  - Why a Permit to Operate?
  - Development Process
  - Other Jurisdictions
  - System Classifications
  - Proactive vs Reactive Operation & Maintenance

Bruce Davidson

Concerned Walkerton Citizens

- **Lessons from Walkerton – Proactivity to Protection**
  - Underlying causes of the Walkerton Tragedy
  - Failure of accountability and pro-activity
  - Consequences in human and personal terms
  - Moving forward

Cyril McCarthy

Department of Municipal and Provincial Affairs

- **Municipal Funding Issues**
  - Types of projects that are eligible
  - Types of projects not eligible
  - How to apply
  - Program selection
  - Cost sharing ratios
  - What can towns do to improve chances of receiving funding?
  - Forecasted areas for major funding

Marc Bracken

- **Water Loss Control**
  - Background on leakage and leak detection
  - Water loss management
  - Fundamentals of correlation

Thank you!

Exhibitors:

Atlantic Technical Services Ltd.
Aqua Data Atlantic
Electric Motor & Pump
EMCO Waterworks
ENG Environmental Technologies Inc.
Enviro Med
Flotech
Ipex Pipe
ITT / Aquious
K & D Pratt
Kean's Pump Shop Ltd.
Omnitech
RL Dennis Assoc Ltd.
Rehau Ind.
Sansom Equipment Ltd.
Western Pump Services

Thank you!

Participants

- Please provide your comments to us on any matter you wish to mention about this workshop so we can address those matters in the future.

- If you would like to have a colour version of these presentations, please check our web site and we will have them there for you to download.