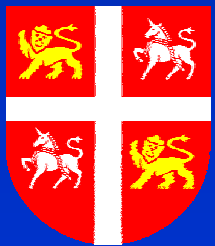


# Clean and Safe Drinking Water Workshop - Summary



**GOVERNMENT OF  
NEWFOUNDLAND  
AND LABRADOR**

**Department of Environment and Conservation**

Gander, September  
21<sup>st</sup>, 22<sup>nd</sup> & 23<sup>rd</sup>, 2003

# Introductions



- **Welcome and opening remarks**
  - ◆ Claude Elliot, Mayor of Gander
  - ◆ Herb Brett, President, NLFM
  - ◆ Hon. Tom Osborne, Minister of Environment and Conservation
  - ◆ Bob Kennedy

# Wayne Stiver

Peterborough Utilities Services

- **Overview Discussion of Challenges and Opportunities in the operation of Small Systems**

- ◆ Structure & Governance
- ◆ Management
- ◆ Financial Considerations
- ◆ Operational Issues
- ◆ Human Resources



# Cyril McCarthy

Department of Municipal and  
Provincial Affairs

- **Generic Terms of Reference for Water Treatment**
  - ◆ What are they?
  - ◆ Highlights of the terms of reference
  - ◆ Water usage and design flows
  - ◆ Selection of best available technology
  - ◆ Impact on municipal budgets



# Keith Mullett

Department of Municipal and  
Provincial Affairs



- **Regional Servicing Board Act**
  - ◆ Origin of the Act
  - ◆ Objectives of the Act
  - ◆ Key Components of the Act
  - ◆ Possible amendments
  - ◆ Process for establishing an RSB

# Liza Ballantyne

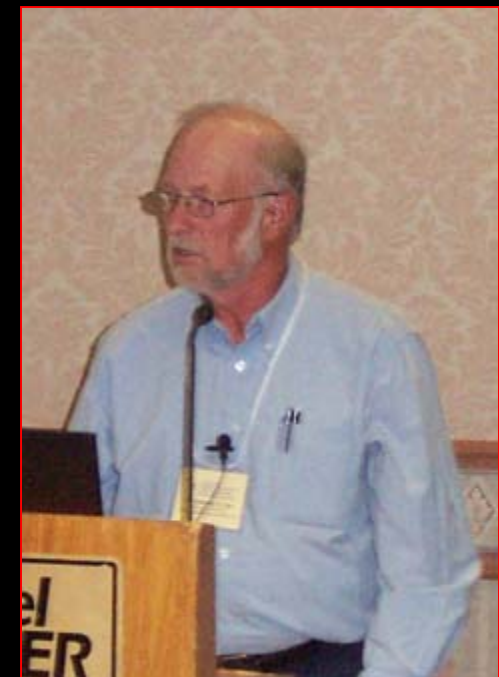
CH2MHill

# Reg Babstock

Newfoundland Design Associates

## ■ Corrosion in Your Distribution System – The Silent Pipe Killer

- ◆ Extend the life of the distribution system
- ◆ Maintain water quality
- ◆ Tools that can be used to measure the corrosivity of water
- ◆ Various methods to control corrosion
- ◆ Cost \$ but save \$\$\$\$ in the long run



# Rehan Sadiq

National Research Council

## ■ Water Quality Failures in Distribution Networks – Understanding Risk

- ◆ Deterioration mechanisms
- ◆ Water quality monitoring
- ◆ Water quality management
- ◆ Understanding risk
- ◆ Risk assessment & management



# Lewis Pain

PCI Membrane Systems, Inc

## ■ **Safe Water for Conne River**

- ◆ Objective to improve water quality
- ◆ What is a membrane?
- ◆ Pilot plant study
- ◆ Construction of WTP
- ◆ Results and costs





# Darrell Mills

Newfoundland and Labrador  
Consulting Engineers Ltd.



## ■ Heart's Delight – Islington Conventional Water Treatment Plant

- ◆ Assembly of Tanks
- ◆ Commissioning
- ◆ Demonstration of operation



# Austin Pomeroy

Town of Placentia

## ■ **Small System Operation and Maintenance – A local experience**

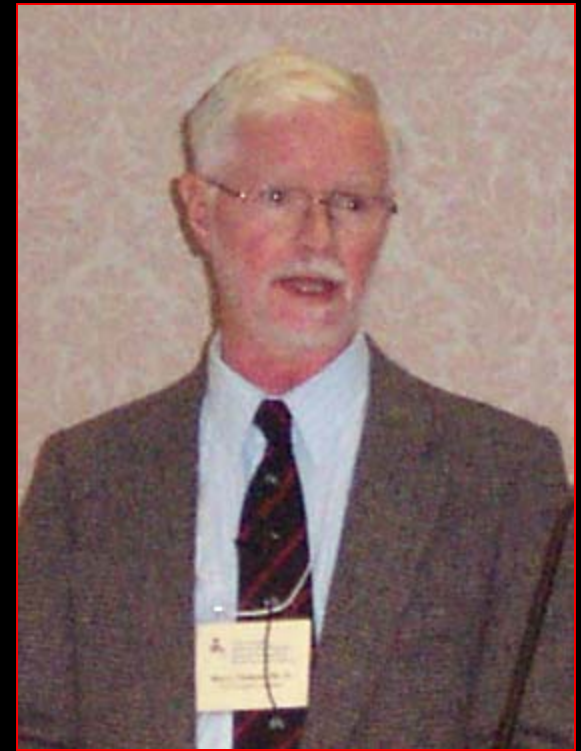
- ◆ Intakes
- ◆ Disinfection Systems
- ◆ Distributions Systems
- ◆ Water Treatment Plant
- ◆ Workforce
- ◆ Schedule
- ◆ Records
- ◆ New Initiatives as a result of training
- ◆ “Greatest Problem”



# Barry Thomas

Consultant

- **Toxicology of Chlorinated Disinfection By-Products**
  - ◆ CDBPs are a significant health risk
  - ◆ Technological solutions are usually possible
  - ◆ Need to balance the drinking water risks against other public health issues that require funding
  - ◆ Adequate disinfection is the number one priority



# Alain Lalonde

Veritec Consulting Inc.

- **Assessing Water Loss – Using “Big System”s Concepts on “Small Systems”**

- ◆ New AWWA Water Auditing Procedure
- ◆ Leakage Performance Indicators
- ◆ Leakage Control Methods
- ◆ Small System Case Study



# Jack Caines

CBCL Limited

- **InfraGuide as a Tool for Sustainable Infrastructure**
  - ◆ new way of planning
  - ◆ innovation
  - ◆ sharing of knowledge
  - ◆ consolidation of knowledge
  - ◆ national cooperation and participation
  - ◆ avoids 'reinventing the wheel'



# Jo-anne Moore

## Delcan Corporation

- **Monitoring Water Quality in the Distribution System**
  - ◆ Parameters, Locations Frequency
  - ◆ Sampling Techniques
  - ◆ Data Management
  - ◆ Event-Driven Monitoring
  - ◆ Partnerships
  - ◆ Response procedures
  - ◆ Community Monitoring
  - ◆ Update and Maintain



# Terry Redden

CGI – Atlantic Division

- **The Issue of Insurance**
  - ◆ Fire Underwriters Survey
  - ◆ Loss statistics
  - ◆ Importance of water supply
  - ◆ Things that are checked



# Thank you!

## Exhibitors

Atlantic Technical Services Ltd.

ENG Environmental Technologies Inc.

Fisher Scientific

Hetek Solutions

Hydro Mechanical Sales Ltd

ITT Industries

K & D Pratt/Tubecraft

Kean's Pump Shop Ltd

National Process Equipment

PCI Membrane Systems

Plumbing Products Ltd.

Sansom Equipment Ltd.

Veritec Consultants Ltd.

Waterworks Supplies Ltd.

Western Pump Services





# Thank you!

**Support:** Department of Municipal and Provincial Affairs

**Organizers:** Bob Kennedy, Haseen Khan

**Session Chairs:** Herbert Card, Amir Ali Khan, Ervin McCurdy

**Audio, Visual and IT:** Paul Neary, Rob Holloway

**Staff:** Gerry Lahey, Kent Slaney, Randy White, Welson Roberts, Deneen Spracklin, Reneé Paterson, Annette Tobin

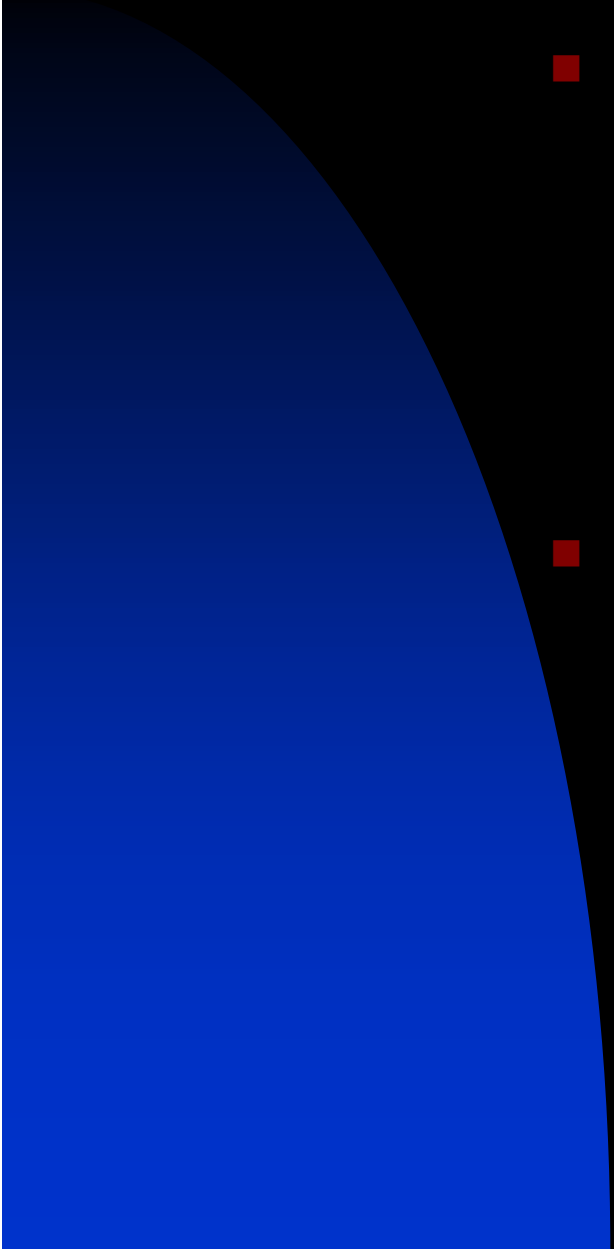


# Thank you!

Participants



September 21, 2004

- 
- 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.