# Continuing Education for Water Operators



#### Mariana Islands Water Operator Association

February 2, 2011 Pacific Islands Club, Saipan

# Today's Agenda

- > About Continuing Education
- Current Events
- Haiti cholera update
- DHHS changes fluoride recommendation
- Main Events
  - HRWA: Chemical Injection
  - T&T: Energy Efficiency
- > Association Announcements





#### Why have continuing education?

- DEQ Drinking Water Regulations require certified operators to have 10 contact hours of continuing education per year (30 contact hours in 3 years) to maintain certification.
- DEQ is not required to offer training (and no longer offers training – no \$\$\$)
- > Where would operators get training?

# Other training options

- Professional training provided by your employer (safety, pump maintenance, lab procedures, etc.)
- College classes
- Conferences or workshops by professional organizations or agencies
- Correspondence courses
- > On-line opportunities

# NOT continuing education

- Meetings with DEQ or EPA
- > Surveys or inspections by DEQ or EPA
- Reading journal articles or textbooks by yourself
- Googling water operator stuff on the internet

#### When should training be offered?

- > DEQ surveyed all certified operators
- > Results
  - One 3 hour session every 3 months
  - In morning
  - On a Wednesday
- > First session September 6, 2006

# What subjects should be covered? (DEQ)

- > September 6, 2006: Chlorination
- > November 8, 2006: Using a Pump Curve
- > February 7, 2007: Cross Connection
- > May 9, 2007: Regulations CCR, PNR
- > August 8, 2007: Sizing Pressure Tanks
- > November 26, 2007: PWS workshop
- > February 20, 2008: Fluoridation
- > May 2008: Process Controls (Robert Brokate)
- > August 2008: Slow Sand Filters
- > November 12, 2008: TCR and Control Valves

### What subjects should be covered? (Mariana Is Water Op Association)

- > March 25, 2009: Security and Filters
- > May 13, 2009: Alt. Energy, CCR, Compliance
- > August 5, 2009: Geology of Saipan, GWR
- > October 9, 2009: GWR Workshop
- > December 2, 2009: Valves, Spills, Walkerton
- > February 3, 2010: Safety, Haz Materials
- > May 5, 2010: BEH & DEQ, Cross Connections
- > August 11, 2010: Waste Water Collection/Trtmt
- November 3, 2010: Response to disease outbreak

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# THIS TRAINING IS FOR YOU!

We'll do what we can to make it what YOU want it to be!

Mariana Islands Water Operator Association

# Suggestions for training

- > Possible topics for upcoming sessions:
  - Backflow prevention device testing
  - Rainwater
  - Local Water System
  - How Reverse Osmosis Works
  - Energy efficiency
  - Storm water and erosion control
  - Introduction to waste water treatment
  - Field trip

## Announcements

- > 2011 Membership Dues \$10
  - Check your member infoPick up your membership card
- > Pick up certificates from November
- Nomination form for Board elections in May (return today)
- Lending Library suggestion form (return today)

# **Current Events**

February 2011



## Earthquake Rocks Haiti

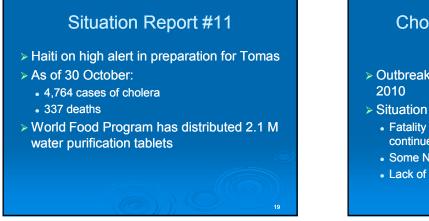
- > Tuesday January12, 2010
  > 7.0 magnitude, 8.1 miles deep
- > 7.0 magnitude, 8.1 miles deep
- > 15 miles WSW of capital





# Earthquake Effects

- > Estimated 230,000 dead
- > 1,600,000 homeless
- > 3,000,000 need assistance
- Did the earthquake cause the cholera epidemic?



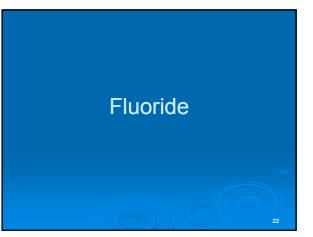
## Cholera outbreak in Haiti

- Outbreak first confirmed on October 21, 2010
- > Situation Report #34 Jan 28, 2011
  - Fatality rates and number of hospitalizations continue to decrease
  - Some NGOs scaling back in some areas
  - Lack of waste evacuation sites problematic

## Cholera outbreak in Haiti

- Since beginning of outbreak
  - 209,034 cumulative cases
  - 117,930 hospitalizations
  - 4,030 deaths

#### ≻ Link to Map



# Fluoride

The US Department of Health and Human Services has proposed an adjustment in the recommendation for the optimal fluoride level in drinking water to prevent tooth decay.

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- > New recommendation: 0.7 mg/l
- > Old recommendation: 0.7 1.2 mg/l

# Fluoride

- Changes because more fluoride sources available now, than when recommendations were first introduced in 1962.
- > Air conditioning









# **Board Member Terms**

- > Chair: Derek Chambers May 2013
- > Vice chair: Bernard Keremius May 2013
- > Secretary: Mariano Iglecias May 2011
- > Treas: Cecilio Raiukiulipiy May 2012

# **Contact Information**

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