

## CONTINUING EDUCATION FOR WATER OPERATORS

MARIANA ISLANDS WATER OPERATOR ASSOCIATION  
APRIL 13, 2016  
PACIFIC ISLANDS CLUB, SAIPAN

### TODAY'S AGENDA

- ABOUT CONTINUING EDUCATION
- CURRENT EVENTS
  - DROUGHT IN PALAU
- MAIN EVENT
  - HOW TO COLLECT MICROBIOLOGICAL SAMPLES
  - HOW TO COLLECT OTHER SAMPLES
  - HOW TO INTERPRET YOUR RESULTS

IS THIS TRAINING REQUIRED?

**NO**

WHY HAVE CONTINUING EDUCATION?

- BECQ REGULATIONS REQUIRE CERTIFIED OPERATORS TO HAVE 10 CONTACT HOURS OF CONTINUING EDUCATION PER YEAR (30 CONTACT HOURS IN 3 YEARS) TO MAINTAIN CERTIFICATION.
- BECQ 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 BECQ OR EPA
- SURVEYS OR INSPECTIONS BY BECQ OR EPA
- READING JOURNAL ARTICLES OR TEXTBOOKS BY YOURSELF
- GOOGLING WATER OPERATOR STUFF ON THE INTERNET

### WHEN SHOULD TRAINING BE OFFERED?

- BECQ SURVEYED ALL CERTIFIED OPERATORS
- RESULTS
  - ONE 3 HOUR SESSION EVERY 3 MONTHS
  - IN MORNING
  - ON A WEDNESDAY
- FIRST SESSION SEPTEMBER 6, 2006

### 2006 – 2008 (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, HRWA)
- AUGUST 2008: SLOW SAND FILTERS
- NOVEMBER 12, 2008: TCR AND CONTROL VALVES

### 2009 MIWOA

- MARCH 25, 2009: SECURITY AND FILTERS
- MAY 13, 2009: ALTERNATIVE ENERGY, CCR, COMPLIANCE
- AUGUST 5, 2009: GEOLOGY OF SAIPAN, GWR
- OCTOBER 9, 2009: GWR WORKSHOP
- DECEMBER 2, 2009: VAVLES, SPILLS, WALKERTON

### 2010 MIWOA

- FEBRUARY 3, 2010: SAFETY, HAZARDOUS MATERIALS
- MAY 5, 2010: BEH & DEQ, CROSS CONNECTIONS
- AUGUST 11, 2010: WASTEWATER COLLECTION/TREATMENT
- NOVEMBER 3, 2010: RESPONSE TO DISEASE OUTBREAK

### 2011 MIWOA

- FEBRUARY 2011: CHEMICAL INJECTION PUMPS (HRWA)
- MAY 2011: RADIATION, RADIONUCLIDE RULE
- JULY 2011: UTILITY POLICIES & PROCEDURES; STANDARD OPERATING PROCEDURES (HRWA)
- NOVEMBER 2011: LEAK DETECTION

### 2012 MIWOA

- FEBRUARY 2012: BOTTLED WATER; REVERSE OSMOSIS; BOTTLE SANITATION
- MAY 2, 2012: INSPECTING TANKS; WATER METERS
- AUGUST 8, 2012: WASTEWATER MEMBRANE FILTRATION (LAO LAO GOLF RESORT)
- NOVEMBER 2012: METERING AND MEASURING FLOW

### 2013 MIWOA

- FEBRUARY: CORROSION CONTROL FOR PB & CU
- MAY: PIPE FOR WATER & SEWER
- SEPTEMBER: GREASE TRAPS
- DECEMBER: COOK ISLANDS WATER SYSTEM; MILITARY R/O; CALCIUM HYPOCHLORITE

### 2014 MIWOA

- FEBRUARY: WEST VIRGINIA CHEMICAL SPILL
- MAY: TEEC SMALL WATER SYSTEM
- AUGUST: PUBLIC RELATIONS BY HRWA
- SEPTEMBER: TEEC SMALL WATER SYSTEMS

### 2015 MIWOA

- FEBRUARY: DISEASE TRANSMISSION/PREVENTION
- MAY: CHUUK TYPHOON (MAYSAK); MAUI WELLS; MAPPING NITRATES
- JULY: UNC ENVIRONMENTAL FINANCE CENTER
- OCTOBER: STORIES FROM SOUDELOR

### 2016 MIWOA

- JANUARY: PUBLIC WATER SYSTEM WORKSHOP, RTCR
- MARCH: UNC ENVIRONMENTAL FINANCE CENTER
- APRIL: EUROFINS - SAMPLING

## THIS TRAINING IS FOR YOU!

WE'LL DO WHAT WE CAN TO MAKE IT WHAT YOU WANT IT TO BE!

MARIANA ISLANDS WATER OPERATORS ASSOCIATION

## SUGGESTIONS FOR TRAINING

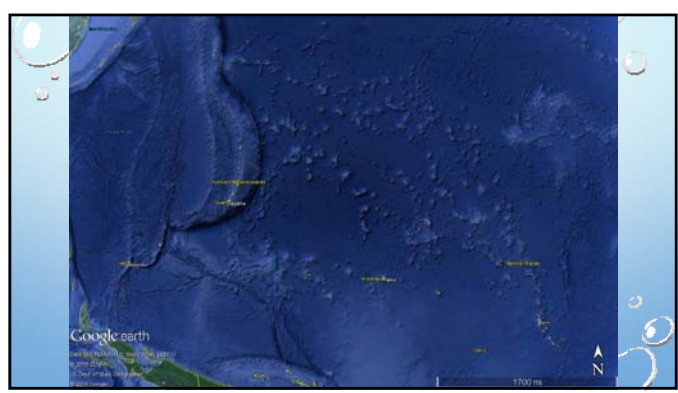
- POSSIBLE TOPICS FOR UPCOMING SESSIONS:
  - REVISED TOTAL COLIFORM RULE ASSESSMENTS
  - BACKFLOW PREVENTION DEVICE TESTING
  - RAINWATER
  - STORM WATER AND EROSION CONTROL
  - ASBESTOS PIPE REMOVAL AND MANAGEMENT
  - ARE YOU A HAZARDOUS WASTE HANDLER?

### CE CREDIT

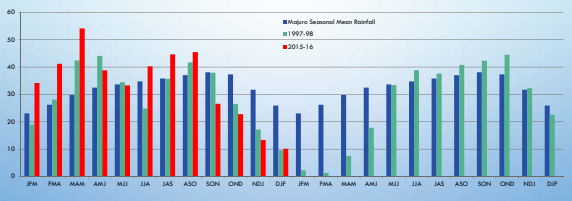
- MAKE SURE TO SIGN-IN AND PAY TO GET CREDIT FOR CLASS
- CERTIFICATES ARE MADE FROM THE SIGN-IN LIST (AND RECEIPT BOOK)
- NAME – AS IT APPEARS ON THE SIGN-IN SHEET
- NOTE E-MAIL ADDRESS CHANGE ON SIGN-IN SHEET
- ATTENDANCE CERTIFICATES ARE POSTED TO THE WEBSITE

### CURRENT EVENTS

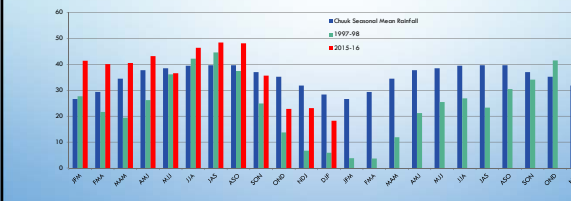
DROUGHT IN MICRONESIA

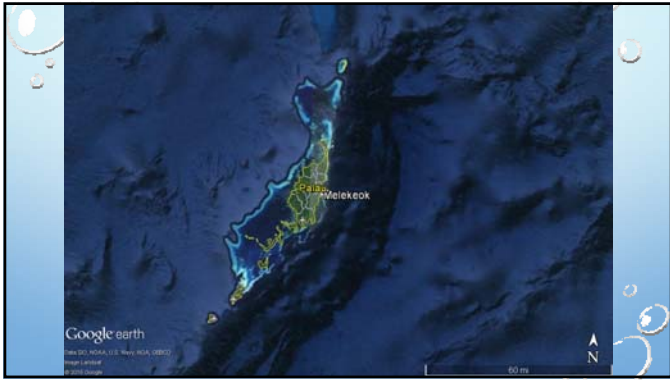
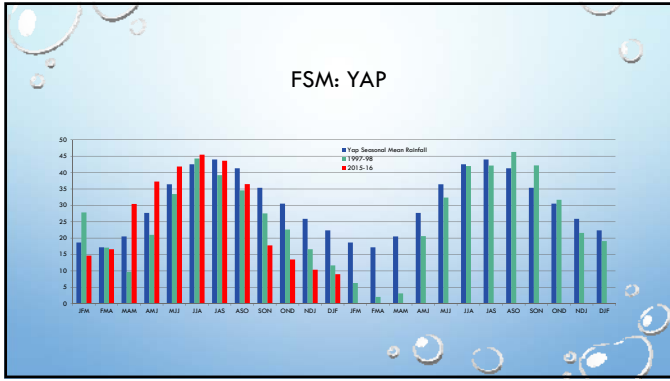


### MARSHALL ISLANDS - MAJURO



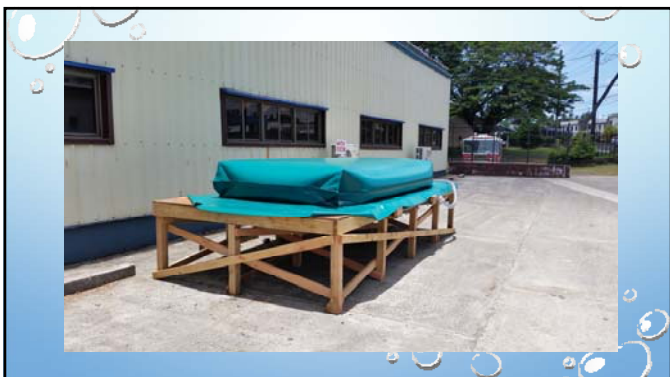
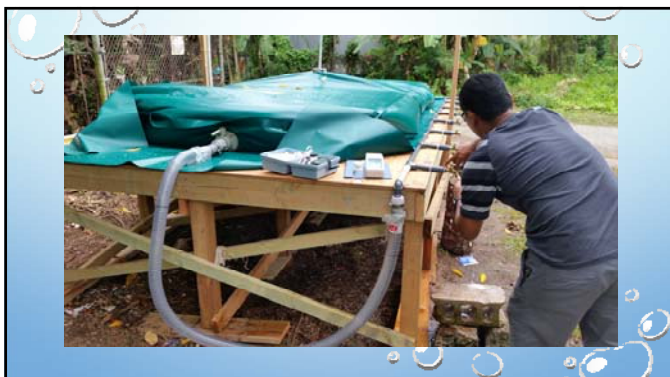
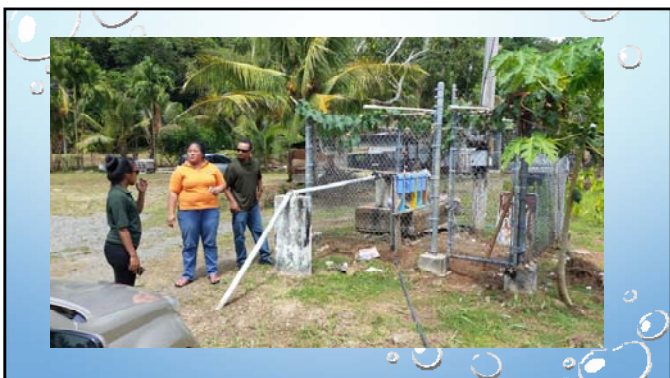
### FSM: CHUUK











EMERGENCY?



MAIN EVENT

RICK ZIMMER: EUROFINS

CONTACT INFORMATION

MARIANA ISLANDS WATER OPERATOR ASSOCIATION  
P.O. BOX 502512  
SAIPAN, MP 96950  
[WWW.MARIANASOPERATORS.ORG](http://WWW.MARIANASOPERATORS.ORG)  
E-MAIL  
[INFO@MARIANASOPERATORS.ORG](mailto:INFO@MARIANASOPERATORS.ORG)