THE WATER SPOT

HAWAII STATE DEPARTMENT OF HEALTH ♦ SAFE DRINKING WATER BRANCH

REVISED TOTAL COLIFORM RULE UPDATES

The Revised Total Coliform Rule (RTCR) introduces a "find and fix" approach to drinking water regulation. The RTCR takes effect on **April 1, 2016,** and will apply to all public water systems.

- All systems will still have to monitor for total coliform and E. coli bacteria.
- Repeat samples will still be required (with some changes).
- An E. coli positive sample followed by a total coliform positive sample (or vice versa) will still be a violation which will require a public notice and could require a boil water notice.
- Total coliform positives will still trigger ground water source sampling (if applicable).
- Sample site plans are required to be updated by March 31, 2016.

Instead of triggering violations or potential violations, multiple total coliform positive results in a system will trigger the need to conduct a Level 1 assessment.

What is a Level 1 Assessment? A Level 1 assessment is a review of the system operation, maintenance and facilities to identify possible causes of the total coliform positive, or "sanitary defects." Level 1 assessments consist of reviewing minimum elements including: sampling protocols, sampling conditions, laboratory issues, unusual events (main breaks, interruptions in disinfection, etc.), distribution system operation and maintenance, or source/treatment issues. Level 1 assessments can be conducted by water system staff.

What is a Level 2 Assessment? A Level 2 assessment is triggered by an E. coli. violation, or if two Level 1 assessments are required within a rolling 12-month period. Of note is a new E. coli violation for a system which fails to collect all repeat samples following an E. coli-positive routine sample. As the name implies, Level 2 assessments are more involved and require a higher level of review. Unlike Level 1 assessments, Level 2 assessments must be conducted by a pre-approved state approved inspector which may include qualified water system staff, current technical assistance providers, consultants, or SDWB staff. Level 2 assessments also identify sanitary defects.

Level 1 and Level 2 assessments must be submitted within 30 days of being triggered. The water system must correct all sanitary defects, or provide a timetable for any

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CONFERENCES

2015 PACIFIC WATER CONFERENCE

The 2015 Pacific Water Conference was a collaboration between American Water Works Association - Hawaii Section and Hawaii Water Environment Association. The conference was held at the Hawaii Convention Center on February 3-5.

Molokai's Winning Top Ops Team: Bozo, Halealoha, & Marshall

Pre-conference workshops initiated the event on February 3. There were two water workshops including Small System Operator Training in Achieving and Maintaining Compliance presented by the SDWB's Mike Miyahira and Ann Zane with impromptu help from Rural Community Assistance Corporation's Kevin Baughman and Hawaii Rural Water Association's Jason Zufelt. The second water workshop featured Water System Operations.

The Conference officially kicked off on February 4. Attendees had 70 technical presentations to choose from with topics of interest for all. SDWB's Robert Whittier presented Merging Isotope Chemistry with Numerical Modeling to Investigate Groundwater Zones of Contribution at one of the sessions.

Joy of RCAC, Zach of West Kuiaha, Kevin of RCAC, & Samantha of Hawaiian Shores browse the exhibits.

The Department of Water Supply, County of Hawaii Men's Team won the Pipe Tapping Competition again with a time of 1:35.5 minutes. Neighbor island, Molokai, proved they could hang with the big boys by winning the Top Ops Competition.

The 2015 Pacific Water Conference provided enlightening technical sessions, exciting competitions, vendor exhibits, and networking opportunities for all.

Thomas of Palehua and Whitney of Kamehameha School make time for networking.

Department of Water Supply, County of Hawaii Men's Team wins the Pipe Tapping Contest.

REMINDERS & UPDATES

CCR DISTRIBUTION DEADLINE COMING UP

The Safe Drinking Water Branch reminds you of the requirement to:

- Prepare and distribute a Consumer Confidence Report (CCR) to your customers by July 1, 2015.
- Submit a copy of your CCR to the SDWB on the same day you distribute your report to your customers, by July 1, 2015, and
- Submit a certification that the report has been distributed to customers and that the information is correct and consistent with the compliance monitoring data for your water system. The deadline for submitting the certification is October 1, 2015, but we highly recommend that you submit it as soon as possible after you have distributed your CCRs.

Failure to submit a copy of the CCR and certification to the SDWB by the above listed dates is a violation of the CCR rule.

CCR Distribution Deadline
July 1, 2015

RTCR UPDATES

CONTINUED FROM PAGE 1

corrective actions not already completed. The timetable must be approved by the SDWB.

What is the SDWB doing to prepare for the RTCR?

First, the SDWB has reviewed the RTCR and plans to tailor it to fit conditions in Hawaii. Although still complex, the proposed Hawaii rule will have less complexities than the federal rule.

The SDWB will be working with all water suppliers so that suppliers can update their sampling plans by March 31, 2016.

The SDWB is preparing Level 1 and Level 2 assessment report forms to guide assessors through their assessments and help to assure assessments are complete.

The SDWB will make determinations pertaining to the qualification of Level 2 assessors.

Summary

The RTCR will reduce the number of violations that would have occurred under the TCR. It has retained the most serious violations for E. coli. It has replaced the total coliform violations with the requirement to find the causes of the total coliform or E. coli positive (aka sanitary defects) and correct physical conditions or procedures that caused the problem. In this way, it will strengthen health protection in drinking water.

For further information on the RTCR you can go to EPA's website at:

http://water.epa.gov/lawsregs/rulesregs/sdwa/tcr/regulation_revisions.cfm

OPERATOR CERTIFICATION

WTPO PASS RATE JUMPS UP

The overall pass rate for the January Water Treatment Plant Operator (WTPO) examination increased dramatically from last July's results from 32% to 55%. The passing rate for the Grade 1 exam alone was a high 69%. The table to the right provides a breakdown by grade. The exam was held on Oahu, Maui, Kona and Hilo.

Grade	Passed	Examinees	Passing Rate
1	9	13	69%
2	1	3	33%
3	-	-	-
4	1	4	25%
Total	11	20	55%

Congratulations to those who passed the exam!

For those wishing to re-take the exam, your Individual Mastery Report will tell you what areas need improvement. Study guides and other resources may be borrowed from the Operator Library to help you study. The next WTPO exam will be in July 2015. Those wishing to sit for the exam should apply by April 28, 2015.

DSO EXAM REVIEW CLASSES BY HRWA FREE 35-HOUR TRAINING

Kahului, Maui
April 6-10
7:30 am - 3:30 pm
Maui County Dept. of Water
Kahului Baseyard
614 Palapala Dr.

Kona, Big Island
April 20-24
7:30 am - 3:30 pm
Location TBD

HRWA is offering a DSO Exam Review Class to help attendees to prepare for the Association of Boards of Certification (ABC) Distribution Examination, Grades 1-4. The course will include an overall test material review and a DSO math review. Free classes are being offered through an EPA grant.

Contact HRWA for registration information at 808-495-0264. Space is limited to 15 participants for each class.

CEU Training Program
for
Water System Operators

See next page for Course Listing

HRWA

808-495-0264

Hawai'i Rural Water Association

hrwaoffice@hawaiirwa.org

Operator Library

Reference Books for ABC Exams Available

Contact Jodi Yamami
jodi.yamami@doh.hawaii.gov

Hawai'i Rural Water Association

Continuing Education Training Program for Water System Operators
Course Listing
April 2015 through June 30, 2015

Course	CEU's	Date & Time	Location	Tuition Fee		
		8:30am to 3:30pm (1 hr. lunch break)		Public Water System Employee	HRWA Member (non-water system employee)	Non-member
Valve & Hydrant Installation & Maintenance	0.6	4/1/2015	Waimea	$195	$240	$490
Valve & Hydrant Installation & Maintenance	0.6	4/2/2015	Maui	$195	$240	$490
Valve & Hydrant Installation & Maintenance	0.6	4/7/2015	Oahu	$195	$240	$490
Valve & Hydrant Installation & Maintenance	0.6	4/8/2015	Kauai	$195	$240	$490
Excelling in Worksheets & Logs	0.6	5/5/2015	Oahu	$195	$240	$490
Excelling in Worksheets & Logs	0.6	5/6/2015	Maui	$195	$240	$490
Excelling in Worksheets & Logs	0.6	5/12/2015	Kona	$195	$240	$490
Excelling in Worksheets & Logs	0.6	5/13/2015	Kauai	$195	$240	$490
Valve & Hydrant Installation & Maintenance	0.6	6/2/2015	Molokai	$195	$240	$490
Meter & Meter Testing Procedures	0.6	6/23/2015	Kauai	$195	$240	$490

REGISTRATION FORM

Registration forms must be received two weeks in advance of class scheduled date.

Name _____ Public Water System (PWS)_____

Public Water System (PWS) # _____

Address _____

City _____ State _____ Zip _____ County _____

Telephone _____ Position _____

E-mail _____ Certification # _____

Session/Date/Location_____ Class Fee $_____

Email registration to: hrwaoffice@hawaiirwa.org

Mail registration and payment to: Hawai'i Rural Water Association, 1325 S. Kihei Rd., Suite 200, Kihei, HI 96753

Payment by Visa and MasterCard: Contact our office @ 808-495-0264 or hrwaoffice@hawaiirwa.org for further information.

Note: This program is partially funded by the United States Environmental Protection Agency and the State of Hawaii, Department of Health using Federal Drinking Water State Revolving Fund monies.

Participants must attend *entire* class to qualify for Hawai'i Water Operator Board of Certification approved CEUs!! HRWA does not guarantee the attendee CEUs, but only offers CEUs that have been approved by the Hawai'i Water Operators Board of Certification.

1325 South Kihei Road, Suite 200
Kihei, Hawai'i 96753
808-495-0264
www.hawaiirwa.org

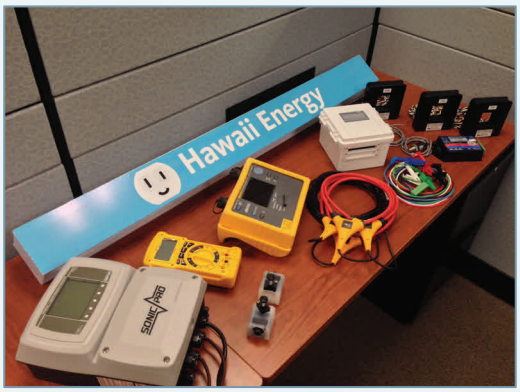
ENERGY ASSESSMENTS

FREE ENERGY-SAVING ASSESSMENTS FOR WATER & WASTEWATER UTILITIES

BY KATE AURILIO, HAWAII ENERGY

The amount of electricity needed to treat and pump water is tremendous. However, whenever water pumping can be reduced, either through leakage detection and repair or improved pump/motor efficiency or other means, the energy and financial savings are often significant.

Hawaii Energy, the ratepayer-funded energy conservation and efficiency program for Hawaii, Honolulu and Maui counties, is keenly interested in the "water-energy nexus" in order to help private and municipal water and wastewater utilities, both small and large, and their customers save energy and money.



Energy Efficiency Pump Assessment Kit

Recently, Jacqueline Lum and I from Hawaii Energy, met with Joy Gannon and Kevin Baughman of the Rural Community Assistance Corporation (RCAC). We demonstrated how to use energy efficiency pump assessment kits at a pump station at Kawela Plantation Homeowners' Association (KHPA) on Molokai, which was graciously hosted by Juanita Colon. The kits (valued at $12,000 each) included the following tools:

- Strap-on ultrasonic flowmeter
- Three-phase power quality meter
- Pressure sensors to suction and discharge pressure
- Weatherproof data logger capable of transmitting flow, power and pressure data wirelessly to a secure website via a GSM network

Hawaii Energy purchased five kits to help water and wastewater utilities on Hawaii, Lanai, Molokai, Maui and Oahu to conduct free pump assessments. RCAC, Hawaii Rural Water Association (HRWA) and Hawaii Energy have these kits on-hand

Kevin Baughman of RCAC inspects the equipment set up at Kawela Plantation.

for any of the five islands to borrow.

Mahalo nui loa to Joy and Kevin from RCAC, the crew at KHPA, our friends at HRWA and Jennifer Nikaido with the Safe Drinking Water Branch for their tireless dedication to improving energy efficiency for water and wastewater utilities throughout the State of Hawaii.

If you are interested in borrowing a kit or learning more about Hawaii Energy's various incentives, please contact me at 808-848-8578 or by email at auriliok@leidos.com.

Quarterly Calendar

- **4/1 O&E Plan Due**
  Surface Water Systems
- **4/6-10 HRWA DSO Exam Review**
  Maui
- **4/10 CT Report Due**
  Surface Water Systems
- **4/10 MRDL Report Due**
  Disinfection Systems
- **4/10 TCR Report Due**
  Systems who complete their own tests
- **4/10 Enhanced Coagulation Report Due**
  Conventional Treatment Systems
- **4/10 Chemical Quarterly Monitoring Report Due**
  Systems with quarterly monitoring requirements
- **4/20-24 HRWA DSO Exam Review**
  Kona
- **4/27-29 WTPO Exam**
  Maui, Kona, Oahu, Hilo & Kauai
- **4/28 WTPO Applications Due**
  July Examinees
- **5/11 CT Report Due**
  Surface Water
- **5/11 TCR Report Due**
  Systems who complete their own tests
- **5/26 Board of Certification Meeting**
  SDWB Honolulu, 10:00 am
- **5/28 WTPO Exam Registrations Due**
  July Examinees
- **6/10 CT Report Due**
  Surface Water Systems
- **6/10 TCR Report Due**
  Systems who complete their own tests
- **7/1 CCR Distribution Due**

April 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 O&E Plan Due	*2*	*3* HOLIDAY	*4*
5	*6* Maui HRWA DSO Exam Review	*7* Maui HRWA DSO Exam Review	*8* Maui HRWA DSO Exam Review	*9* Maui HRWA DSO Exam Review	*10* Maui HRWA DSO Exam Review CT Report Due MRDL Report Due TCR Report Due Enhanced Coagulation Report Due Chemical Quarterly Monitoring Report Due	*11*
12	*13*	*14*	*15*	*16*	*17*	*18*
19	*20* Kona HRWA DSO Exam Review	*21* Kona HRWA DSO Exam Review	*22* Kona HRWA DSO Exam Review	*23* Kona HRWA DSO Exam Review	*24* Kona HRWA DSO Exam Review	*25*
26	*27* Maui & Kona DSO Exam	*28* Oahu & Hilo DSO Exam WTPO Applications Due	*29* Kauai DSO Exam	*30*		

May 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	*2*
3	*4*	5	6	7	*8*	*9*
10	*11* CT Report Due TCR Report Due	*12*	*13*	*14*	*15*	*16*
17	*18*	*19*	*20*	*21*	*22*	*23*
24	*25* HOLIDAY	*26* Board of Certification Meeting	*27*	*28* WTPO Exam Registrations Due	*29*	*30*

June 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	*1*	*2*	*3*	*4*	*5*	*6*
7	*8*	*9*	*10* CT Report Due TCR Report Due	*11* HOLIDAY	*12*	*13*
14	*15*	*16*	*17*	*18*	*19*	*20*
21	*22*	*23*	*24*	*25*	*26*	*27*
28	*29*	*30*	*1* CCR Distribution Due			

HAWAII STATE DEPARTMENT OF HEALTH SAFE DRINKING WATER BRANCH

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DAVID Y. IGE
Governor of Hawaii

VIRGINIA PRESSLER, M.D.
Director of Health

KEITH E. KAWAOKA, D. Env.
Deputy Director for Environmental Health

The mission of the Safe Drinking Water Branch of the Department of Health is to safeguard public health by protecting Hawaii's drinking water sources (surface water and groundwater) from contamination and assure that owners and operators of public water systems provide safe drinking water to the community. This mission is accomplished through the administration of the Safe Drinking Water Program, Underground Injection Control Program (UIC), Groundwater Protection Program (GWPP), and the Drinking Water State Revolving Fund (DWSRF).

We're on the Web!

http://health.hawaii.gov/sdwb/

We provide access to our activities without regard to race, color, national origin (including language), age, sex, religion, or disability. Write or call our Affirmative Action Officer at Box 3378, Honolulu, HI 96801-3378 or at 808 586-4616 (voice) within 180 days of a problem.

JENNIFER CHANGES ROLES

Jennifer Nikaido

On February 3, 2015, Jennifer Nikaido changed roles from the Lead and Copper/Capacity Development Engineer to the Microbial Disinfection Byproducts Rules Engineer. In her new position, Jennifer will provide rule implementation and technical subject matter expertise for the complete suite of surface water and disinfection byproduct rules under the Federal Safe Drinking Water Act.

Until a replacement can be found for her old position, Jennifer has graciously decided to perform the duties of both. For all assistance with surface water treatment rule and disinfection byproducts rule issues, you may now contact Jennifer at 808-586-4258.