

THE WATER SPOT

HAWAII STATE DEPARTMENT OF HEALTH • SAFE DRINKING WATER BRANCH

WORKING WITH CIRCUIT RIDERS PAYS OFF BY KEVIN BAUGHMAN, RCAC CIRCUIT RIDER

During Tropical Storm Iselle, the dedication of many water professionals throughout the State was clearly demonstrated. Water systems were put to the test and had a real challenge. When the storm hit, it was good to see the hard work, preparation, and planning pay off.

This story is about two water systems on the Big Island that have been working with the Drinking Water Circuit Riders to make technical, managerial, and financial improvements to their water systems. The water systems owned by Hawaiian Beaches Water Company (HBWC) and Hawaiian Shores Community Association (HSCA) were hit hard during Tropical Storm Iselle. The operators directly involved were Kate Drago and Mark Prescott of HBWC, and Samantha (Sam) Martoni and George (Keoki) Kaheiki Jr. of HSCA. These professionals went above and beyond to help restore water service quickly and safely to the area. HBWC and HSCA made contact with the Circuit Riders before, during and after the storm and assistance was given over the recovery days.

Rural Community Assistance Corporation (RCAC) Circuit Rider Joy Gannon was instrumental in posting updates on social media by updating the HBWC website and Facebook page. Social media proved to be a good method of relaying information to the public after the event as rumors had started spreading. The Facebook page reached over a thousand people to let them know HBWC was back on-line and that no shut down was going to take place in the immediate future.

In fact, the HBWC never lost service! HBWC had previously invested in upgrades to their system including adding storage, installing a new backup emergency power generator, and installing meters to change from a flat rate fee to a use based fee. The additional storage and emergency generator were the key factors that contributed to continuous service even when power was lost. Mark, who lives in the neighborhood, arrived and stayed at the baseyard to monitor and respond during the storm. His professional dedication helped to ensure continuous water service.

With HBWC running smoothly, all focus turned to HSCA. RCAC Circuit Rider Kevin Baughman met up with Sam of HSCA on Friday, the day after Tropical Storm Iselle made landfall. Unsure if Tropical Storm Julio would be headed their way, they quickly assessed the damage, reviewed the procedures and made a plan to recover. HSCA lost both power and water during the storm. It was suspected that many mains had been broken from uprooted trees. Recovering electricity was in the works. The Boil Water notice template was filled out and arrangements were

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OCTOBER 2014

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CIRCUIT RIDER ASSISTANCE

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made to get help passing them out the next morning.

On Saturday, the operators and Kevin met at the HSCA water yard and learned electricity had been partially restored.

Contact was made with HELCO, the local electric utility, and a technician was sent to check on the situation. This was all accomplished by 11 a.m. Then work was started to restore water to the community mains. It was rough going. Sam and Keoki started through the community isolating one street at a time where they could access the isolation valves. This work was made more difficult as the mains and laterals are located at the back of the properties instead of in the streets. With the downed trees and power lines, some isolation valves were just impossible to access, but slowly the system was refilled. At the same time, Mark and Kevin monitored the water supply to verify no leaks. By night fall, the last section was reached but when bringing it on, a major leak was suspected because the booster pumps began having a hard time keeping up with the system. The decision was made to use gravity for the night and resume recovery in the morning.

Early on Sunday, it appeared that the second storm was turning away. However, the overnight demand had been five times normal usage. Sam opted to read meters to try to find the major leak. By 9 a.m., the last of the remote read meters was captured. While pulled to the side of the road to review the data, the sound of rushing water was noticed in the very middle of the subdivision. With the help of Keoki and Mark, the isolation valve for the lateral was found and the leak

was stopped. The booster pumps were restored and returned to nearly normal operation. The rest of the day was spent clearing a path and making a patch from the broken lateral to the last two houses so complete water service could be restored.

Monday morning came and the water system was tested for bacteriological contamination at the beginning, middle and end of the distribution system. By noon on Tuesday, the bacteriological results were in and found to be negative so the boil water notice was lifted. The HSCA water system was up to providing 100% normal service thanks to the operators and Circuit Riders.

HBWC and HSCA are located in the area hit hardest by Tropical Storm Iselle. However, because both water systems had been working on making system improvements during recent years with the help of the Circuit Riders, HBWC's water service was uninterrupted and HSCA's water outage was fairly short lived given the circumstances.

Hopefully there will never be another direct hit by a tropical storm or hurricane, but it is always best to be prepared. Contact your local Circuit Riders from RCAC or Hawaii Rural Water Association (HRWA). They can provide assistance with your preparation.

- ◆ RCAC Kevin Baughman
808-896-3886 kbaughman@rcac.org
- ◆ RCAC Joy Gannon
808-345-1246 jgannon@rcac.org
- ◆ HRWA Jim Watts
360-941-2959 jim@hawaiiirwa.org
- ◆ HRWA Jason Zufelt
808-866-0029 jason@hawaiiirwa.org
- ◆ HRWA Gary Byrd
808-343-3809 gary@hawaiiirwa.org

QUARTERLY CALENDAR

- ◆ **9/29–10/3 HRWA DSO Exam Review Class**
Waikoloa Village
- ◆ **10/1 O&E Plan Due**
Surface Water Systems
- ◆ **10/10 CT Report Due**
Surface Water Systems
- ◆ **10/10 MRDL Report Due**
Disinfection Systems
- ◆ **10/10 TCR Report Due**
Systems who complete their own tests
- ◆ **10/10 Enhanced Coagulation Report Due**
Conventional Treatment Systems
- ◆ **10/10 Chemical Quarterly Monitoring Report Due**
Systems with quarterly monitoring requirements
- ◆ **10/27–29 DSO Exam**
Kauai, Kona, Hilo, Oahu, & Maui
- ◆ **10/27 WTPO Applications Due**
January Examinees
- ◆ **11/10 CT Report Due**
Surface Water Systems
- ◆ **11/10 TCR Report Due**
Systems who complete their own tests
- ◆ **11/14 DSO & WTPO Renewals Due**
Selected operators
- ◆ **11/25 Board of Certification Meeting**
SDWB Honolulu, 10:00 am
- ◆ **12/10 CT Report Due**
Surface Water Systems
- ◆ **12/10 TCR Report Due**
Systems who complete their own tests

OCTOBER 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	29 HRWA DSO Exam Review Class	30 HRWA DSO Exam Review Class	1 HRWA DSO Exam Review Class O&E Plan Due	2 HRWA DSO Exam Review Class	3 HRWA DSO Exam Review Class	4
5	6	7	8	9	10 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	21	22	23	24	25
26	27 Kauai & Kona DSO Exam WTPO Applications Due	28 Hilo & Maui DSO Exam	29 Oahu DSO Exam	30	31	1

NOVEMBER 2014

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

DECEMBER 2014

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

DWSRF ANNUAL REPORT STATE FISCAL YEAR 2014

The Safe Drinking Water Branch (SDWB) is pleased to provide this annual report on the activities of our Drinking Water State Revolving Fund (DWSRF) for the State Fiscal Year 2014 (July 1, 2013 - June 30, 2014). The DWSRF bested last fiscal year's all time record for loan volume (\$27,632,905) by nearly 20%, finishing strong at \$32,924,850. Early indications in this current fiscal year are pointing to even more loan activity in the coming months. The DWSRF is a federally-capitalized loan program that provides low interest loans to the four County water departments for their drinking water infrastructure projects. Since 1997, the Hawaii DWSRF has financed over \$166,693,550 in County water supply projects, such as treatment plants, new drinking water sources, the replacement of aging waterlines, and storage tanks.

The resulting public health benefits and water and energy savings for over 1 million rate paying residents Statewide, coupled with the favorable debt service opportunity for the County entity (interest rates vary between 1% and 2% depending on the project loan amount), is a win-win for all parties. In addition, the DWSRF continues to provide additional subsidization (zero percent interest + principal forgiveness), to a portion of these already low interest loans to qualifying "Green" projects that provide water or energy efficiency benefits, thus reducing the effective interest rate to even lower levels!

The Hawaii DWSRF program is considering extending financing to state-owned and privately-owned water systems in the near future.

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HAR 11-20 REVISIONS

The Governor signed the proposed revisions to Hawaii Administrative Rules (HAR) 11-20, Rules Relating to Public Water Systems, and the revised rules became effective on May 2, 2014. The revisions primarily incorporate the Federal Ground Water Rule, adds a definition of "Service connection," and makes minor corrections to align State regulations with the Federal Lead and Copper Rule. HAR 11-20 is available at <http://health.hawaii.gov/sdwb/files/2013/06/Ch11-20-Final.pdf>.

EMERGENCY FAQs

Tropical storm Iselle recently impacted a number of water systems on the Big Island. SDWB has posted some Frequently Asked Questions (FAQs) for Drinking Water Quality During Emergencies including important phone numbers and emergency links on our website. These may be found at <http://health.hawaii.gov/sdwb/files/2014/08/DrinkWaterFAQinEmergency.pdf>. It may be helpful to familiarize yourself before another storm comes our way.

SDWB's URL has changed. Update your bookmark at:

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

DWSRF ANNUAL REPORT

CONTINUED FROM PAGE 4

Table 1 lists all of the County projects that executed loan agreements last fiscal year. A heartfelt “mahalo” to all of our County water supply managers and their hardworking staff for embracing this

important program!

For more information on the DWSRF program, contact Mr. Alain Carey of the SDWB Engineering Section or check out our website at <http://health.hawaii.gov/sdwb/dwsrf/>.

COUNTY	WATER SYSTEM	PROJECT NAME	LOAN AMOUNT (\$)	TOTAL LOAN RATE (%)	ADDITIONAL SUBSIDIZATION (\$)
Maui	DWS Wailuku	Wailuku Well Development	2,000,000	2.00	0
	DWS Wailuku	Maui Meadows Booster Pump Station #18 Improvements	1,100,000	2.00	1,100,000
	DWS Makawao	Paia-Kuau Water System Improvements	815,447	2.00	700,000
	DWS Upper Kula	Olinda Water Treatment Plant - Relining of the 8.5 MG Sedimentation Basin	1,492,502	2.00	1,137,500
	DWS Lower Kula	Piholo Water Treatment Plant Improvements - Organic Carbon Reduction	4,960,519	1.50	0
Honolulu	BWS Honolulu-Windward-Pearl Harbor	Foster Village Water System Improvements, Part III	1,382,569	2.00	0
	BWS Honolulu-Windward-Pearl Harbor	Mapunapuna Water System Improvements, Part I	5,727,070	1.50	0
	BWS Honolulu-Windward-Pearl Harbor	Woodlawn Drive 8-Inch Main	3,720,373	2.00	0
	BWS Honolulu-Windward-Pearl Harbor	Kamehameha Highway 16-Inch and 8-Inch Mains (Heeia)	6,253,646	1.50	1,567,000
	BWS Honolulu-Windward-Pearl Harbor	Kapiolani Boulevard 12-Inch Main	5,472,724	1.50	0

Table 1. County Projects During State Fiscal Year 2014

ABPA

Backflow Testers
Re-Certification



Thursday, October 23, 2014

Non-Instruction "Practice" Day

Applicants may practice on actual backflow preventer assemblies with simulated faults. Contact Jay Nakashima at 808-298-3171 for information.

Friday, October 24, 2014

Written & Hands-On Examinations

Go to www.abpa.org to register.



2014 Annual Hawaii Water Works Association Conference

*Knowledge Collaboration &
Learning for Water Management*

October 15-17, 2014

Kauai Marriott Resort

Lihue, Kauai

[Click Here for Info](#)

DSO EXAM REVIEW CLASS BY HRWA

Waikoloa Village, Big Island

1 Quarry Road, Waikoloa Village, Hawaii
Hawaii Water Service Company Baseyard

September 29 - October 3

8:00 a.m. - 3:15 p.m. each day

~~\$200~~ ~~\$400~~ per person
for the 5-day class

For registration information,
contact HRWA at hrwaoffice@hawaiiirwa.org or (808) 495-0264.

CEU Training Program for Water System Operators

See next page for Course Listing

HRWA

808-495-0264

hrwaoffice@hawaiiirwa.org





Hawai'i Rural Water Association



Continuing Education Training Program for Water System Operators Course Listing October 9, 2014 through December 31, 2014

Course	CEU's	Date & Time 8:30am to 3:30pm (1 hr. lunch break)	Location	Tuition Fee		
				Public Water System Employee	HRWA Member (non-water system employee)	Non-member
Utility Emergency Preparedness	0.6	10/21/2014	Hilo	\$195	\$240	\$490
Utility Emergency Preparedness	0.6	11/5/2014	Oahu	\$195	\$240	\$490
Utility Emergency Preparedness	0.6	11/6/2014	Maui	\$195	\$240	\$490
Basic Electrical Safety	0.6	11/19/2014	Kona	\$195	\$240	\$490
Basic Electrical Safety	0.6	12/2/2014	Oahu	\$195	\$240	\$490
Basic Electrical Safety	0.6	12/3/2014	Kauai	\$195	\$240	\$490
Basic Electrical Safety	0.6	12/16/2014	Molokai	\$195	\$240	\$490
Basic Electrical Safety	0.6	12/17/2014	Maui	\$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@hawaiiirwa.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@hawaiiirwa.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.hawaiiirwa.org



WTPO PASS RATE DROPS

This summer’s Water Treatment Plant Operator (WTPO) exam was given on July 21-23 on Oahu, Maui, Kauai and the Big Island. The pass rate dropped back down to 32%, similar to the July 2013 WTPO exam pass rate. Examinees are encouraged to borrow study guides and reference material from the Operator Library in preparation for the next WTPO exam if they wish to re-take it. The next exam will be scheduled during the week of January 26, 2015 with exam registrations due by November 27, 2014, two months prior to the exam.

Grade	Passed	Examinees	Passing Rate
1	3	9	33%
2	3	8	38%
3	0	0	--
4	0	2	0%
Total	6	19	32%

To those who passed the exam, Congratulations!

2014 CERTIFICATION RENEWALS

Is your DSO or WTPO license expiring? The third, final renewal notice was mailed in September for those operators. November 30, 2014 is the expiration date of many DSO and WTPO certifications. Take a look at your ID cards now and renew before the deadline of November 14, 2014.

All grades 1 and 2 certifications require 0.8 Continuing Education Units (CEUs) or 8 contact hours to maintain certification every 2 years. Grades 3 and 4 certifications require 1.6 CEUs or 16 contact hours. If your renewal period is not 2 years, your required CEUs will be

prorated. If you do not have sufficient CEUs to renew, the last Board meeting for reviewing CEU Requests prior to the expiration date is coming up, and CEU Requests are due by October 25, 2014.

Submit your renewal form and renewal fee via cashier’s check or money order only. No personal checks, please.

Don’t delay in renewing. After December 31, 2014, the renewal fee doubles. After November 30, 2015, you will not be able to renew and will need to re-take and pass the exam to become certified again.

OPERATORS WANTED

The following organization has indicated a need for certified operators.

WTPO 2, WTPO 4

Waimea, Big Island

County of Hawaii

Department of Water Supply

Go to <http://jobs.co.hawaii.hi.us>

**2014
DSO & WTPO
RENEWALS
DUE 11/14/14**

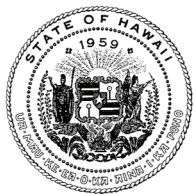


**HAWAII STATE
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SAFE DRINKING WATER
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96814-4920

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E-mail: SDWB@doh.hawaii.gov



NEIL ABERCROMBIE
Governor of Hawaii

LINDA ROSEN, M.D., M.P.H.
Director of Health

GARY GILL
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.

SDWB WELCOMES CHANTYLL & WANG

The Safe Drinking Water Branch (SDWB) continues to grow with the addition of Chantyll Westbrook and Zhaohui Wang in the last few months.

Chantyll joined the Clerical Section after working at the Kapolei Child Support. Prior to that she was busy as ever being a stay at home mom for her four children ages 21-5 years old! Chantyll continues to love spending time with her family, but she feels very blessed to now have an opportunity to work with SDWB. Chances are you'll hear her cheery voice the next time you call the office.

Zhaohui (call him Wang) is the newest member of the Compliance Section with Chemical Monitoring-Phase II/V and CCR responsibilities. After graduating from the University of

Hawaii, Manoa, his first job was as an R&D engineer for fuel cell development. Before joining SDWB, he worked as a chemist in environmental monitoring and analysis. Wang hopes to develop his engineering skills and effectively use his experience and knowledge in environmental chemistry to the fullest extent. At home, he enjoys cooking and playing with his 2 year old son.



Welcome Wang and Chantyll!