



AQUA TALK



Colorado Department
of Public Health
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A newsletter from the Safe Drinking Water Program of the Water Quality Control Division

My Thanks to Each of You

by Betsy Beaver

This article is a rather late notification of what most of you already know. I retired from service with the Water Quality Control Division. Aug. 31, was my last day at work.

I vividly recall sneering at Chet Pauls' suggestion 10 years ago, when I graduated from law school, that I might like to come to work at the Water Quality Control Division and be a part of seeing that all the state's water and wastewater operators became certified. I could think of nothing more boring, except perhaps a career in patent law. Me? A regulator?? Water and wastewater systems???



Betsy Beaver, facility operator program

Well, Chet and I simultaneously became desperate, he for someone to finish writing a regulation, me for a job. So I arrived in October 2000 – just for three months, I insisted. It took very little time for me to fall in love with the work, with the task of building a unique program, with the concept of helping operators develop a sense of professionalism, with the challenge of helping small systems get the professional help they needed, with the opportunity to exercise the long-dormant skill of teaching, with every day being different, with the incredible variety represented by the water and wastewater systems, and with the privilege of working with the operator community.

My thanks to each of you for the support and help you have given me. My thanks to each of you for the pride you take in your facilities and for the high standards you set for yourselves and your co-workers.

This was the best job I ever had! But now it's time to see if all those trout take an interest in what I think they may be hungry for!

A word or two, if I may. We are charged with one of the most critical tasks in society. Water – clean, safe water – is the *sine qua non* of life. I think we sometimes view our work in terms of numbers, schedules, rules and forms. All this is necessary, but it can cloud our vision. Our job is to ensure that the water being processed in or transported through each and every system stays clean and safe or becomes clean and safe. The state cannot be on the ground at each system to enforce the rules. We have to trust you, the operators. We could trust that you are too afraid of the consequences to lie to us on monitoring reports, but that approach would shortchange both you and us. Alternatively, we can trust that you are our partners in each facility, that you believe as we do and share the passion that we have, that you are operators who fight to obtain the resources your facility needs, that you are professionals who operate your facility with pride and expertise, that you are citizens who look for ways to help your communities realize where water comes from and where it goes, that you are men and women who never forget that you are entrusted with the care of our most valuable natural resource.

Message from the Safe Drinking Water Program Manager

Operations and Maintenance: A Critical Barrier

We are all aware of the multiple barrier approach to protecting public health and providing safe drinking water. Adequate barriers to disease begin at the source water and continue through treatment, disinfection, storage and distribution. But none of these barriers are operated or maintained by themselves. I have been disturbed recently by the amount of product advertising I have seen selling equipment or storage tanks as "maintenance free." Is there really such a thing? I believe this kind of thinking does a disservice to the critical role operations and maintenance personnel serve in protecting public drinking water supplies.

Vigilant operators provide vital oversight to the actual operating status of the entire public drinking water system from source to tap in real time. Operators should be routinely monitoring all aspects of the system to ensure everything is working as designed, and identifying and fixing observed problems. Operators monitor instrumentation that could show a potential water quality problem and take samples to verify the water system is working properly and the drinking water is safe.

Similarly, maintenance activities prevent equipment failures that could jeopardize water quality or lead to a catastrophic failure. Water systems need detailed



Ron Falco, P.E.,
Safe Drinking Water Program manager

equipment inventories and preventive maintenance programs to keep everything running smoothly. Of course, executing the maintenance program is then the key step to ensuring equipment is functioning within specified parameters, and performing its job in keeping drinking water flowing and safe. Proper maintenance also saves money.

I view the human element involved with operating and maintaining public drinking water systems as the most important public health protection barrier. All the sophisticated treatment systems and instrumentation in the world are insufficient without dedicated personnel to verify that said equipment is running properly today, and taking care of the equipment with preventive

maintenance to ensure it will be running properly tomorrow. Machines, instruments and "maintenance free" devices cannot think for themselves. They cannot truly evaluate and understand what is happening or may happen at a water system. It takes the eyes, ears, knowledge and instincts of operating and maintenance personnel to make sure drinking water is safe, and will remain that way.

I would recommend thinking twice before buying something billed as "maintenance free."

Thank you.



CoWARN Celebrates Its 4th Birthday with CoWARN Boot Camp!

by Mary Smith

Mutual aid is nothing new. Neighbors were helping neighbors long before history was even recorded. However, organized mutual aid in the water sector is relatively new, and since Hurricane Katrina hit the Gulf Coast in 2005, it has gained enormous impetus in the United States.

In the fall of 2005, CoWARN – Colorado’s Water/Wastewater Agency Network – was conceived as part of a nationwide effort to improve emergency preparedness and response in the water sector. The idea took time to gestate in Colorado, but in November 2006, CoWARN was born. By the time our first annual meeting was held, our baby was talking! We had multiple signed mutual aid agreements and about 15 members. By the time our second annual meeting rolled around, our baby was not just walking, it was running! We had undergone our trial by fire – the Alamosa *Salmonella* Outbreak Response.

We were measured. We were weighed. We were **not** found wanting!

That is not to say we can’t continue to improve. Since the Alamosa response, we have positioned potable water pillow tanks at locations throughout the state. We have delivered Emergency Water Quality Sampling Kits to utilities and local public health departments.



We have increased our visibility, strengthened our partnerships and increased our numbers.

Over the past four years, our membership has grown to 112 utility and six non-utility partners. We have members in each All-

Hazards Region, but we need your continued help to recruit your neighboring utilities, as well as your local emergency managers. Of course, there is strength in numbers, but there is also strength in the mutual aid agreement . . . if it is signed. Many members have not completed this critical step that could save valuable time later.

To celebrate our 4th birthday, we will hold annual meetings in both Denver and Grand Junction on Nov. 3 and 4. In conjunction with those meetings, we will also offer our CoWARN Boot Camp. This will include a brief Incident Command System refresher, a run-through of our website’s Event Tracking System, and an overview of our new CoWARN Operational Plan. It will then move into the main event – a tabletop exercise facilitated by Sandy Smith, former chair of Georgia’s Water/Wastewater Agency Response Network.



Sign up today, and help us celebrate in November!

To join CoWARN or to update your account, go to www.cowarn.org. For CoWARN Boot Camp registration and information, visit the division’s training page at www.cdphe.state.co.us/wq/drinkingwater/trainingevents.html.



Division's New Non-Community Groundwater System Inspection Program is Building Strong Partnerships with Participating Local Health Departments

by Tyson Ingels

The Water Quality Control Division took the lead role in the Non-Community Ground Water (NCGW) System Inspection Program on Jan. 5, 2009, which required the creation of a new position, "NCGW System Inspection Coordinator." More recently, the division hired two new inspectors that are dedicated to the program. In support of the inspection program, the division is partnering with 15 county health departments throughout Colorado. Cathy Heald is the coordinator of the program and is responsible for overseeing the implementation and management of the program, including support to our program partners. On behalf of the program, Ms. Heald has committed to support county inspectors throughout the inspection process, as well as provide assistance to the water systems she has personally inspected.

"... I just want to tell you what a pleasure it has been to work with her. She was most patient with my questions; always prompt in getting back with me; always explained things thoroughly. If she didn't know the answer herself she directed me to the right people. She is certainly an asset to your division! In a day when too much emphasis is on those who do wrong, on the negative....I want to commend the positive. Cathy's help was invaluable! "

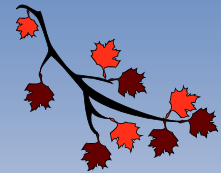
Don Gertge, ORC, Lone Star School District

In support of the inspection program, new scope of work agreements were executed with each participating county department. The agreements outline program expectations including performing inspections at a set number of public water systems, completing inspection letters within 30 days of the date of the inspection and necessary deficiency follow-up activities. As with inspection performance work, county health departments are compensated for follow-up activities as well.

To strengthen the program, the division provided detailed training to all county participants. Training covered all aspects of the inspection process from preparation, including the improvement of providing information to the public water systems in advance of the inspection, through follow-up resolution activities

Counties with Agreements

- Boulder
- Delta
- Fremont
- Jefferson
- Larimer
- Mesa
- Montrose
- Northeast covering Logan, Morgan, Phillips, Sedgwick, Washington, and Yuma
- Pueblo
- Rio Blanco
- Routt
- San Juan Basin covering Archuleta, La Plata, Montezuma and San Juan
- Summit
- Tri-County covering Adams, Arapahoe and Douglas
- Weld



with deficient water systems. The division also updated and improved program tools used throughout the survey process including an inspection agenda and brochure that is sent to the system beforehand, new inspection forms and an Excel-based tool to compile summaries of deficiencies for the inspection letter.

Possible deficiency findings have been streamlined and are based on violations of the Colorado Primary Drinking Water Regulations. In addition, these deficiencies are consistent with those that are used in the division's engineering section inspection program. Having a consistent inspection program across Colorado is needed because it directly benefits the state's regulated public water systems.

Continued on Page 5 >>>





Colorado Blows Away the Windy City at the American Water Works Association's Annual Conference and Exposition

by Nicole Graziano

The American Water Works Association held another Annual Conference and Exposition (ACE), and Colorado was well-represented in the technical sessions. Colorado Department of Public Health and Environment staff and state contractors presented at four sessions that focused on the department's investigative, training and research efforts. The 2010 ACE conference was held June 20-24 in the bustling city of Chicago.

Ron Falco, the Water Quality Control Division Safe Drinking Water program manager, presented on the *Salmonella* drinking water outbreak that occurred in Alamosa, Colo. in 2008. Ron provided an overview of the outbreak, the public health investigation and response, assistance provided by other drinking water utilities through the Colorado Water/Wastewater Area Response Network, and an overview of the cause investigation.

Nicole Graziano, the Water Quality Control Division Drinking Water Excellence Program lead, provided an overview of drinking water related disease outbreaks on a national level. Based on her evaluation, the

number of drinking water outbreaks has decreased over time due to a combination of factors, including more stringent drinking water regulations, improved treatment operations, sanitary inspections, increased compliance monitoring, and surveillance monitoring. However, drinking water outbreaks still occur. Between 1971 and 2006, there were more than 733 drinking water-related outbreaks at public water systems that resulted in 577,134 cases of illness.

Jeff Oxenford, of Oxenford Consulting, presented on the division's analysis of the cause of water system failure. The goal of this project was to determine how to best direct resources toward the most critical failures of public water systems in Colorado. Data was analyzed to determine the most common causes for system failure.



Photo courtesy of www.facebook.com/AWWA ACE.

Continued on Page 6 >>>

Division's New Non-Community Groundwater System Inspection Program is Building Strong Partnerships with Participating Local Health Departments

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Although there was some initial trepidation among counties regarding the new program, specifically with deficiency follow-up work, it didn't take long before several county inspectors successfully completed the deficiency follow-up tracking process. The county inspectors worked closely with the system until all the deficiencies were resolved. In each case, the inspector

- performed a thorough sanitary survey and while doing so, offered assistance and guidance to the system;
- identified deficiencies during the sanitary survey;
- drafted a survey letter that documented the findings in a clear and concise manner; and
- worked with the system after the sanitary survey to achieve resolution for all deficiencies cited.

The division looks forward to strengthening county partnerships as it continues to improve the program. For any questions regarding the program, please contact Cathy Heald at 303-692-3613.



What Do You See?

Can you spot the water safety issues with this picture? If you see something we missed, let us know!

Send your comments to comments.wqcd@state.co.us. Enter "Safe Drinking Water Newsletter" as the subject.



Answer

Deficiency: The condition of the storage structure may allow potential sources of contamination to enter the tank. DCPWS Appendix I, 1.0.9

In accordance with Appendix I, Section 1.0.9 of the State of Colorado Design Criteria for Potable Water Systems, sidewalls of all structures must be of an impervious watertight material with no openings except properly constructed vents, manholes, overflows, risers, drains, pump mountings, control ports, or piping for inflow and outflow. During the sanitary survey, it was observed that the overflow pipe for the 100,000 gallon raw water storage tank was broken and exposed a 6-inch opening at the side of the tank.

Colorado Blows Away the Windy City at the American Water Works Association's Annual Conference and Exposition

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Based on the results of the data analysis, more than 9 percent of systems had a significant deficiency and more than 63 percent of systems reported a regulatory violation.

Joy Barrett, of the Rural Community Assistance Corporation, presented on the assessment of technical, managerial and financial training in Colorado. For this project, the division commissioned a study to determine what training is available for small drinking water systems. The study found that while technical, managerial and financial training in Colorado is readily available, the following topics need more emphasis:

- ◆ leak detection,
- ◆ distribution system water quality.
- ◆ managerial and financial skills, tools, and resources,



Photo courtesy of www.facebook.com/AWWAACE.



Get Into Water! Project

by Melanie Fahrenbruch, Get Into Water! Project Manager

The Get Into Water! Project, an alliance of Colorado-based utilities, work force centers, educational institutions and associations, is organized to attract and train people to work in the water industry. We are asking Colorado water and wastewater

utilities to consider posting open positions on the Connecting Colorado website, a free service of the county work force centers.

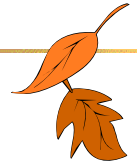
One of the most important goals of the Get Into Water! Project is to expose more potential applicants to the water and wastewater industry. Some of our strategies in support of this goal include hosting and participating in regional job fairs, hosting an outreach website (www.getintowaterco.org) and marketing open positions to a broader base of potential applicants.

We are seeking utilities statewide that would be interested in posting their open positions on the Connecting Colorado website (<http://www.connectingcolorado.com>). It is a secure site hosted by the Colorado Department of Labor and Employment where individuals seeking employment and businesses seeking employees can be matched for free.

To make the job posting process as easy as possible, Arapahoe/Douglas Works! is providing confidential staff assistance for utilities.

The process is easy. Utilities will send job descriptions and application requirements to Ms. ShaJuana Williams, business account representative for Arapahoe/Douglas Works; she in turn will assist in marketing the positions and tracking applicants. If you are interested in helping us reach our goals, please contact Williams at 303-636-1210 or swilliams3@co.arapahoe.co.us.

Should your utility have openings in the future, please consider the Connecting Colorado website as a marketing option. Your participation in this effort will help us reach our project goals!



The Get Into Water! Mission:

The Front Range water and wastewater industry will sufficiently recruit, train and retain personnel to ensure mission-critical positions are filled with qualified, trained and technically skilled employees. This project will address Outreach and Recruitment; Training; Knowledge Retention; and Human Resource and Operations Staff Collaboration.

get into
water!



For more information, contact
The Get Into Water! Project
c/o Rocky Mountain Section AWWA
1685 S. Colorado Blvd., Unit 315
Denver, CO 80222

E-mail: mel@mjfconsult.com

Phone: 303-912-3358

Fax: 303-471-5754

www.getintowaterco.org



Coaches Corner

by Mike Bacon and Natalie Bixler

General monitoring plans are imperative for every system to have for compliance according to Article 1.12 of the Colorado Primary Drinking Water Regulations. A complete plan not only assists the state, but assists the system as a guideline for sampling. The plan includes contact information, water system details, and helps the system with monitoring and reporting the proper water quality sample, correct sampling location, and correct time frame for sampling. If you already have filled out a plan prior to February of this year and do not have any changes

in your system since it was filled out, you do not have to redo your plan unless stipulated to do so.

This summer, the Colorado Department of Public Health and Environment had a team of four interns who helped a number of systems with developing their general monitoring plans. New general monitoring plans were developed specifically for different types of water systems in February 2010. These new templates are available at <http://www.cdphe.state.co.us/wq/drinkingwater/PublicWaterSystemReportingForms.html>.

In addition, if you do not have a total coliform plan (bacteriological sampling plan), you should obtain the template, fill it out and send it in. Be advised that the new general monitoring plan has the total coliform plan incorporated into it for every type of system. During the interns' work, the team found some useful tips to help systems develop their general monitoring plans. Below are just a few tips:

- ◆ “IDs” assigned by the department can be found on your annual *sampling schedules*; however, not all “IDs” are scheduled each year. If you have questions on the “ID” portion of the plan, contact one of the compliance specialists listed at http://www.cdphe.state.co.us/wq/drinkingwater/pdf/CAS_Contact_List.pdf.

Total Coliform

- ◆ All *routine* sample sites must be representative of the entire system as well as being rotated each testing cycle. No sample sites should be from a swivel or gooseneck faucet.

- ◆ All *repeat* sample sites must be within five taps of the routine site.
 - * If the system collects one routine sample per month mark “Four” in the check box.
 - * If two or more routine samples per month are collected mark “Three” in the check box.
- ◆ Non-acute Compliance Determination
 - * If 40 or fewer samples are collected each month, mark the “More than 5 percent positive sample” box.
 - * If 39 or less are collected per month, mark the “More than one positive sample in a calendar month” box.
- ◆ Don't forget to include a map showing routine sites, and up and downstream sample site locations!

These are just a few tips on filling out a general monitoring plan. Please feel free to contact a coach at 303-692-3580 or 303-692-2605 for a full list of tips or answers to any other questions you might have.



The Capacity Building Unit's intrepid team of interns and coaches. Top row: (from left) David Hach, Greg Wallingford, Kaitlin Stabrava and Natalie Bixler. Bottom row: (from left) Coach Gordon Whittaker and Coach Mike Bacon.



Facility Operator Program News



Exam Information

The next cycle of collection/distribution and small system certification exams will be in the fall of 2010 at several locations across the state. Dates, locations and application materials are available on the Operator Certification Program Office website at www.ocpoweb.com. **The deadline for applying for these exams was Aug. 15, 2010. Late applications will not be accepted!** Note: If you have already scheduled an examination and need to change the date, contact Teresa at 303-394-8994.

Water and Wastewater Facility Operators Certification (WWFOCB) News

New! This spring the WWFOCB has made electronic testing available at the Operator Certification Program Office. You must apply for exams by the ordinary deadlines, but then will be able to make an individual appointment to take the exam. Online testing is available for all levels. Advantages include *instantly* knowing your score, completing your Affidavit of Legal presence, purchasing your certificate on site, and having the flexibility in arranging a test time to fit your schedule. You **must** be approved for the standard paper-and-pencil exam to enroll and you **must** enroll at least two weeks prior to the exam date you want. Additional cost for online testing is \$35. Details may be obtained from the regular spring letter from the OCPO and on the OCPO and WWFOCB websites. Go to the Operator Certification Program Office website at www.ocpoweb.com, click on the "Operators" tab, choose "Certification," and choose "Pre-Approved Enrollment." Read the information and follow instructions to enroll!

The next two board meetings are scheduled for Sept. 28 and Oct. (date not yet determined) at the Colorado Department of Public Health and Environment in the Sabin Room in Building A (unless otherwise noted). The meetings begin at 9 a.m. and are an excellent opportunity to hear and be heard. If you would like to provide any comments in addition to the published agenda, contact Heather Timms at 303-692-3469. Specific agenda information can be found at <http://www.cdph.state.co.us/op/ocb/MeetingsandHearings/Agenda.html>. For all other inquiries you may visit www.cdph.state.co.us/op/ocb (the official Water and Wastewater Facility Operators Certification Board website).

Renewals: Please check the renewal date on your certification! Renewal applications must be submitted, along with the appropriate number of training units, completed legal presence documents and the application fee, **by the expiration date**. If you think you may not be able to complete your renewal by the expiration date, please call the Facility Operator Program (303-692-3510 or 3503) to request a bridge letter. Remember, certificates expired for more than two years are automatically revoked!

Operators in Responsible Charge Change: If you are the Operator in Responsible Charge (ORC) of a system and are leaving that system, please send written notice to the Facility Operator Program. The notice must include your name, the name of the system and the effective date of separation. Either snail mail or e-mail notifications are acceptable. If you are the administrator of a system with a new ORC, please submit a new ORC form to the Facility Operator Program as soon as possible. ORC forms may be found at www.cdph.state.co.us/op/ocb/Reporting-ORC/ocbImplInfo.html.

Operator Certification Expense Grant Reimbursements Increased!

If you work as an operator (either water treatment or distribution) for a community or non-transient non-community public drinking water system that serves a population of 3,300 people or fewer, you may qualify for certification cost reimbursement through our expense reimbursement grant. **The application must be received by the Colorado Department of Public Health and Environment within six months of the issue date on the operator certificate.**

The grant money allotted for certification exam reimbursement and renewals has just been increased to \$230 per application!

- ◆ **Application Forms:** Contact: Lori Billeisen at the Water Quality Control Division, 303-692-3510.



Ask Aqua Man

Dear Aqua Man,

I operate a groundwater system and one of my routine total coliform samples came back positive. What are my monitoring requirements under the new Groundwater Rule?

Sincerely, T.C. Indawell

Dear Mr. Indawell,

The Groundwater Rule was established to implement a risk-targeted approach to identify groundwater systems that are susceptible to fecal contamination. Systems that are not providing certified 4-log virus removal have triggered source water monitoring requirements following a routine bacteria sample that is total coliform positive. In addition to the distribution repeat samples, the system has 24 hours to sample from each groundwater source that was in use at the time of the positive. When you take your routine total coliform sample(s), be sure you have enough bottles for your distribution repeats and for each groundwater source. If any of the source water samples are positive for a fecal indicator, one of two actions will occur. The division may require



immediate corrective action or require the system to collect five repeat samples at each source that tested positive within 24 hours. If one or more of those repeats comes back positive for a fecal indicator, corrective action will be required. Corrective actions may include correcting significant deficiencies, providing an alternate source of water, eliminating the source of contamination, or providing treatment that achieves 4-log removal/inactivation of viruses. Systems are required to have the capability to collect water samples from each source before treatment. The inability to access a raw water source will be noted as a deficiency during a sanitary survey. If a

groundwater system is providing at least 4-log treatment of viruses, source monitoring is not required. Please be sure to contact a compliance specialist if you have any questions about these requirements.

Sincerely, Aqua Man

If you have any questions for Aqua Man, please send them to comments.wqcd@state.co.us. Enter "Safe Drinking Water Newsletter" as the subject.



Coming Down the Pipe... News Alerts for the Drinking Water Community

The 2010 calendar year marks the last year in a three-year compliance cycle and nine-year monitoring cycle for drinking water monitoring. If your water system is required to monitor certain contaminants on a three-year or nine-year cycle, make sure all your requirements have been met by the end of the year. Please be sure to carefully review your 2010 monitoring schedule and feel free to contact a compliance specialist if you have any questions.

Changes in the Financial Solutions Unit

by Louanna Cruz

On May 31, 2010, Carolyn Schachterle retired from state service. Carolyn had been the unit manager of the Financial Solutions Unit, which is the unit overseeing the state revolving fund loan programs and state grant programs. Replacing Carolyn as the unit manager is Michael Beck who was appointed to the position on June 1, 2010.

Michael is originally from Ithaca, NY, but relocated to Colorado in 1996 to become a ski instructor. He graduated in 2004 with a master's degree of science in construction management from Colorado State University in Fort Collins. He also received his undergraduate degree in industrial science from CSU in 2001.

Some of you may be familiar with Michael as he began his career with the state as a project manager in the unit two years ago. Michael had been assigned to the southeast portion of the state and was heavily involved with Colorado Radionuclide's projects and the American Recovery and Reinvestment Act. Michael brings more than six years in project management



Michael Beck,
financial solutions unit manager

experience to the position. His previous work history includes project engineer for Saunders Construction Company; instructor of construction management at Tarrant County College in Arlington, Texas; and graduate instructor at CSU in the Department of Construction Management.

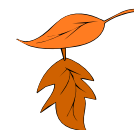
Michael will manage the unit along with directly supervising six project managers, a construction manager and administrative assistant. Michael's vast knowledge of the State Revolving Fund program, coupled with his enthusiasm for the program makes him an excellent

choice for the position. Michael's vision for the future of the Financial Solutions Unit is to continue building strong relationships and outreach efforts that promote affordable funding options to improve the water quality throughout the state.

Michael can be reached at 303-692-3374 and looks forward to working with you in the future.

Visit Us on the Web

- Follow us on Twitter!
http://twitter.com/CO_SafeWater.
- Subscribe to the program's RSS feed
http://twitter.com/statuses/user_timeline/35859511.rss.
- The Drinking Water Program's home page Web address is
www.cdphe.state.co.us/wq/drinkingwater/index.html.
- For training opportunities, please visit the division's website at
www.cdphe.state.co.us/wq/drinkingwater/trainingevents.html.
- To access Aqua Talk online, go to
www.cdphe.state.co.us/wq/drinkingwater/QuickLinks.html.
- To access the district engineer county listing, go to
www.cdphe.state.co.us/wq/engineering/pdf/County_List.pdf.
- To access the contact list for drinking water rules, go to
www.cdphe.state.co.us/wq/drinkingwater/pdf/CAS_Contact_List.pdf.



Training Opportunities

On Aug. 9, 2010 the Water Quality Control Commission approved the adoption of revisions to the Colorado Primary Drinking Water Regulations. The new provisions significantly affect groundwater systems and become effective November 30, 2010. The Water Quality Control Division is offering the following **free training opportunities** to public water systems and drinking water professionals to educate them on the new regulations and the federal Groundwater Rule that became effective December 2009. Please join us!

Groundwater Systems and Microbial Risk: The Regulatory Approach

Target Audience: Public water systems, contract operators and other drinking water professionals using groundwater who want guidance and assistance on groundwater-specific regulation.

Join Armando Herald and Julie Conroy, division specialists in regulatory implementation, to learn what it takes for groundwater systems to comply with the most recent groundwater-specific regulations.

This training is free!



Training will be offered in the following locations

Sept. 9	Fort Collins - Marriott
Sept. 23	Grand Junction - Two Rivers Convention Center
Oct. 7	Frisco - Best Western
Oct. 21	Durango - Community Recreation Center
Nov. 4	Colorado Springs - Crowne Plaza
Nov. 18	Alamosa - Inn of the Rio Grande
Dec. 2	Lamar - Cultural Center
Dec. 16	Sterling - Comfort Inn

Drinking Water Operator Training Units Will Be Awarded!



Please register online: <https://www.lrssl.com/getteams/GroundwaterRegistration.asp>

For more information: <http://www.getteams.com/EventReg-GroundWater.htm>

Water Quality Control Division Engineering Section Contact Information

Jennifer Miller	Section Manager		303-692-3507	Denver Office
John Payne	Insp Coordinator		303-692-3532	
Christopher Etcheson	C GW Inspector		303-692-3551	
Denver Field Unit 1, Unit Manager: Bret Icenogle 303-692-3278				
Tyson Ingels	DW Lead Engineer		303-692-3002	Denver Office
Cathy Heald	NC GW Program Coordinator		303-692-3613	
Andra Ahrens	NC GW Inspector		303-692-2035	
Thomas Valenta	NC GW Inspector		303-692-2988	
Denver Field Unit 2 (Denver/Steamboat Springs), Unit Manager: Heather Drissel 303-692-3419				
Ram Ramaswami	WW Lead Engineer		303-692-3588	Denver Office
Barbara Dallemand	OWS/ISDS Coordinator		303-692-2366	
Kelsey Baertschi	District Engineer	Arapahoe, Adams, Broomfield Phillips, Upper El Paso	303-692-3567	Denver Regional Office
Doug Camrud	District Engineer	Clear Creek, Denver, Sedgwick, Weld	303-692-3271	
Paul Kim	District Engineer	Douglas, Lincoln, Park Washington	303-692-3279	
David Kurz	District Engineer	Elbert, Larimer, Yuma	303-692-3552	
David Dani	Staff Engineer		303-692-3605	
Paul Kosik	Staff Engineer		303-692-3327	
Gary Halbersleben	Eng/PhySci Tech		303-692-3561	
Nicole Noble	Administrative Support	Primary Admin for DFU 1	303-692-3568	
Andy Poirot (Steamboat)	District Engineer	Grand, Jackson, Eagle Moffat, Routt, Summit	970-879-7479	
Jon Erickson	District Engineer	Cheyenne, Jefferson, Kit Carson, Lake	303-692-3593	Denver Regional Office
Dennis Pontius	District Engineer	Boulder, Gilpin, Logan, Morgan	303-692-3566	
Melanie Criswell	Staff Engineer		303-692-3603	
Jorge Delgado	Staff Engineer		303-692-3511	
David Hines	Staff Engineer		303-692-4929	
Andrea Gardiner	Staff Engineer	ARRA Projects	303-692-3545	
Nicole Rollo	Administrative Support	Primary Admin for DFU2	303-692-3650	
Southern Regional Office (Pueblo/Durango), Unit Manager: Gary Soldano 719-545-4650 x 14				
David Kurz (Temp. Primary Contact)	Temporary Point of Contact	LaPlata, Montezuma, Hinsdale	303-692-3552	Denver Regional Office
Doug Camrud (Temp. Secondary Contact)	Temporary Point of Contact		303-692-3271	
Doug Camrud (Temp. Primary Contact)	Temporary Point of Contact	Dolores, San Juan, Archuleta, Mineral	303-692-3271	
David Kurz (Temp. Secondary Contact)	Temporary Point of Contact		303-692-3552	
Dave Knope	District Engineer	Baca, Bent, Costilla, Crowley Kiowa, Las Animas, Otero, Lower El Paso County Prowers Pueblo	719-545-4650 x 13	Southern Regional Office
Joseph Talbott	District Engineer	Alamosa, Chaffee, Conejos, Custer, Fremont, Huerfano, Rio Grande, Saguache, Teller	719-545-4650 x 21	
Clayton Moores	Staff Engineer		719-545-4650 x12	
Monique Morey	Staff Engineer		719-545-4650 x 16	
Carol Keever	Administrative Support		719-545-4650 x 10	
Northwestern Regional Office, Unit Manager: Tom Schaffer 970-248-7152				
Mark Kadnuck	District Engineer	Garfield, Mesa, Eagle, Pitkin, Rio Blanco	970-248-7144	Northwestern Regional Office
Jocelyn Mullen	District Engineer	Delta, Gunnison, Montrose, Ouray, San Miguel	970-248-7153	
Christine Lukasik	Staff Engineer		970-248-7156	
Rob Cribbs	Environmental Protection Specialist	Swimming Pools Contact	970-248-7199	
Michelle Thiebaud	Administrative Support		970-248-7150	

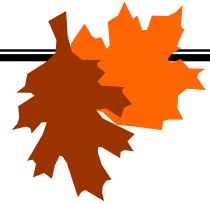


Fall

Aqua Talk Newsletter Information

The following people contributed to the production of this issue of Aqua Talk:
Ron Falco, Sharon Williams, Gloria Duran, Mike Bacon, Louanna Cruz, Lori Billeisen-Moore, Paul Kim and Melissa McClain.

Hope you enjoyed our last issue for this year! Our next scheduled newsletter will be released January 2011. We welcome any comments, questions, story ideas, articles and photographs submitted for publication. Please address correspondence to Gloria Duran, Aqua Talk Newsletter, Water Quality Control Division, 4300 Cherry Creek Dr. S., B2, Denver, CO 80246-1530 or e-mail comments.wqcd@state.co.us. Enter "Safe Drinking Water Newsletter" as the subject. Past issues are available by contacting the editor or visiting the website at <http://www.cdphe.state.co.us/wq/drinkingwater/QuickLinks.html>.





Colorado Department
of Public Health
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Safe Drinking Water Program

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Editor: Gloria M. Duran

Purpose - to communicate division drinking water-related issues to stakeholders in a fun and informative format
