# WATER TAP

WASHINGTON'S DRINKING WATER NEWSLETTER

Washington State Department of Health
Division of Environmental Health
Office of Drinking Water

Volume 22, #4 - Sept. 2007


## Washington operators rank higher!

Recent data from the Association of Boards of Certification (ABC) indicate people certified in Washington pass more ABC standardized exams than the national average. Is your success due to Washington's professional growth requirement? Could it be the quality of our exam review classes? We don't know why you do better, but we sure are proud of you!

The chart below shows the average annual passing rates for ABC's standardized exams since 2000. These rates include all examinees tested by ABC's Certification Program and by clients of the ABC Testing Service who use the standardized exams.


Register for Fall Drinking Water Seminars
See page 19


### Passing Rates

| Water Treatment Plant Operator | National | Washington |
|---|---|---|
| Class I | 74% | 88% |
| Class II | 58% | 83% |
| Class III | 55% | 85% |
| Class IV | 39% | 74% |
| **Water Distribution Manager** | **National** | **Washington** |
| Class I | 71% | 87% |
| Class II | 58% | 82% |
| Class III | 59% | 78% |
| Class IV | 56% | 83% |
| **Water Distribution Specialist** | **National** | **Washington** |
| | 69% | 72% |

ABC's chart does not reflect national passing rates for the Cross Connection Control Specialist or Basic Treatment Operator classifications. We're proud to show that, in Washington, their passing rates are:

Cross Connection Control Specialist 91%

Basic Treatment Operator 73%

Congratulations to all our certified water works operators for demonstrating higher standards!

## Inside This Issue

# The Director's Column

by Denise Addotta Clifford

## Planning for a future with less water

I'm convinced we can no longer afford to debate whether climate change is real.

Consider that:

- Temperatures in Washington are rising.
- Mountain snow pack is declining.
- Glaciers in the North Cascades have lost 18 to 32 percent of their volume since 1983.
- We've seen drought conditions from 2000 to 2005.

Any of these factors can threaten drinking water supplies. Taken as a whole, they're a compelling call to action.

The Department of Health (DOH) is engaged in carrying out the goals of Gov. Chris Gregoire's executive order on climate change. As part of this effort, I am working with the Climate Advisory Team's Water Resources & Quality (Freshwater) Preparation/Adaptation Working Group. We're figuring out potential impacts on water supplies and how to mitigate them. DOH also is contributing leadership on human health issues associated with climate change.

We are planning ahead to help people and communities stay healthy. Water utilities should plan ahead, too. Think in terms of at least a 20-year water supply. How will you ensure your community has the water it needs in 2027?

Some communities already face water shortages; for others, it's only a matter of time. If you aren't planning for your future water supply, please begin now. Staff at your ODW regional office can help.

We already have some tools in place for managing water supply, including the new Water Use Efficiency Rule. The rule requires municipal water suppliers to reduce leaks, install meters and implement other efficiency measures.

Getting in the habit of using water wisely now will help you and your customers make the best use of available resources into the future.

But conservation and efficiencies can only go so far with a shrinking water supply and a growing population. We must look at other options, too, such as reclaimed water. This highly treated water can replace drinking water for non-potable uses: flushing toilets, irrigating golf courses and crops, industrial cooling, and other activities.

Consider the benefits of using reclaimed water to extend your supply.

Yes, cost is an issue. It costs about twice as much to install a new piping system for reclaimed water in your developed service area as it does to put those lines in a brand new development. However, the price of infrastructure isn't the only cost at stake. As supplies become scarce, the price of drinking water is bound to soar and growth may be restricted. When you consider these economic impacts, reclaimed water and other efficiency measures may look like real bargains.

While we are not in crisis mode, I encourage you to evaluate what you can do to use water wisely today, and make plans to ensure that you have sustainable, reliable water supplies well into the future.

# Camps, seasonal operations can avoid headaches in spring with autumn shut-down checklist

As summer draws to a close, it's time to think about shutting down your campground's water system for the winter. You'll want to protect the system from freezing, vandalism, vermin, flooding, heavy rains and other potential threats.

You can save yourself some headaches and expense by performing a few simple shut-down tasks this fall. You can get started by using these publications:

*Start-up and Shut-down Assistance for Seasonal Non-Community Water Systems (331-314)*

*Small Water System Start-up/Shut-down Self-Inspection Checklist (331-312)*

Your efforts will pay off next spring because your system will need fewer repairs and maintenance work prior to re-opening.

## Steps to consider when shutting down this fall:

- **Evaluate the system:** Look for problems needing repair in the off-season. Obtain a final source-meter reading for the system and record it on the start-up shut-down checklist.
- **Drain and repair the storage tank:** Inspect for cracks and repair as needed, clean and disinfect the tank with a bleach solution.
- **Prepare pressure tanks:** If freezing is a concern, drain your pressure tanks when they're not in use. If you are unsure how to do this, contact the manufacturer for instructions. If freezing is not an issue and you decide to leave the pressure tanks full, you must treat the stagnant water inside with a solution of at least 5 ppm of chlorine and flush it out prior to start-up in the spring.
- **Shut down the water source:** If your system's water source is groundwater, you should turn off the supply for the winter. Be sure to insulate to protect the system components. Use Styrofoam, if possible, because vermin are attracted to shredded paper or fiberglass insulation. Check for openings that would allow rodents, insects or other contaminants to enter.
- **Shut down treatment:** Turn off power to all treatment systems and safely dispose of unused chlorine solutions. Check the expiration date on unused chemicals to see if they will last until spring. Refer to advice from your manufacturer.
- **Protect the distribution system:** Don't leave taps open in the off-season, and never add antifreeze to your water system – it's a health hazard. Exercise the valves to ensure they're in good repair.

## Actions to take while you're closed:

- Compile your operations and water quality records for the year. Note periods of peak water use, any water quality problems, and unexpected events. Use this information to plan for next year.
- Review and update your coliform monitoring plan. Ensure sample locations are representative of the system and that you avoid bad sample sites.
- This is the time to make large-scale improvements to your system, if needed. Work other than repair and replacement usually requires Department of Health (DOH) approval prior to the start of work. Contact your DOH regional engineer for guidance.

## For more information:

Call your ODW regional office:

Eastern region - Spokane (509) 456-3115

Northwest region - Kent (253) 395-6750

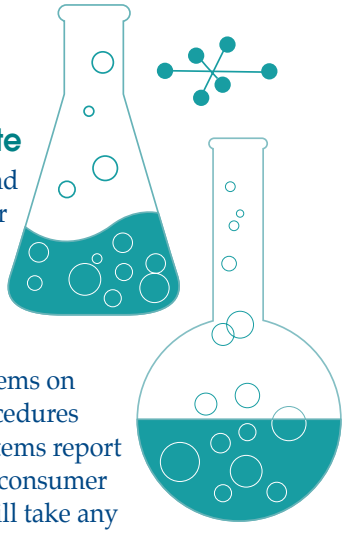
Southwest region - Tumwater (360) 236-3030

View ODW publications online at http://www4.doh.wa.gov/dw/publications/publications.cfm

Take continuing education courses to improve your knowledge. A course list is online at http://www.doh.wa.gov/ehp/dw/our_main_pages/training.htm or see the training calendar on page 10.

If the hatch blows off your storage tank, as happened here, your water system could be polluted with fecal contamination from birds, bats, mice, or other animals. *Photo credit: Steve Deem*

# Lab Update



## Drinking Water Laboratory Data Reporting Rules Update

Following workshops in March and April, the Office of Drinking Water (ODW) met with the three state-designated principal laboratories for additional input on the draft laboratory data reporting rules. We also got input from water systems on proposed new data-reporting procedures that could change what water systems report to their customers in their annual consumer confidence reports. This fall we will take any issues remaining to the State Board of Health for further review. After that, we will prepare a final draft rule and distribute it for review by stakeholders. We plan to have the new rules ready for a hearing in the spring of 2008.

## Loss of Analyte Accreditation Procedures

There are occasions, usually for short periods of time, when a laboratory may lose accreditation for one or more analyte testing methods. When that happens, the Department of Ecology Lab Accreditation Program (Ecology) notifies both the lab and ODW. After ODW enters this information into the Sentry database, the computer will not accept sample results for that test method.

If a laboratory continues to send in sample results using methods that Ecology considers non-accredited after that date, the entire sample is rejected. When that happens, the water system doesn't get credit for submitting a complete sample, and it fails to meet its monitoring requirements.

***Two ways labs can handle samples while working to re-establish accreditation:***

1. Explain the situation to the customer and refuse to take the sample.
2. Notify the customer of the situation, but take the sample and subcontract it, or a portion of it, to another state-certified lab able to do the tests. After the subcontracted work is done, combine all the results and submit them to the customer and ODW.

When a lab subcontracts samples, it must submit both the lab slip showing the portion of the test it did and the lab slip showing the results from the subcontracted lab to ODW. Sentry can accommodate this procedure, and the water system will get credit for meeting its monitoring requirements.

You can locate certified laboratories on Ecology's Web site at http://www.ecy.wa.gov/programs/eap/labs/documents/DWLabsScopesInternet.pdf

EPA WaterSense SM

# *EPA is looking for partners*

The U.S. Environmental Protection Agency is building WaterSense as a national brand for water efficiency. The brand is more than just a product label; it is a symbol representing the importance of water efficiency in the United States.

With help from its partners, WaterSense will encourage water-efficient behaviors and encourage consumers to purchase quality products that use less water.

WaterSense, a voluntary public-private partnership program, seeks to protect the future of our nation's water supply by promoting water efficiency and enhancing the market for water-efficient products, programs and practices.

WaterSense will help consumers identify water-efficient products and programs. The WaterSense label will indicate that these products and programs meet water-efficiency and performance criteria. WaterSense-labeled products will perform well, help save money and encourage innovation in manufacturing.

WaterSense is partnering with irrigation professionals and irrigation certification programs to promote water-efficient landscape irrigation practices. WaterSense is also partnering with manufacturers, retailers and distributors, and utilities to bring WaterSense products to the marketplace and make it easy to purchase high-performing, water-efficient products.

### For more information:

Look for the WaterSense booth at the Infrastructure Assistance Coordinating Council conference in Wenatchee (see page 9).

To join WaterSense as a promotional partner, sign up at http://www.epa.gov/watersense/partners/join/promote.htm

# New UV Policy for Surface Water

Ultraviolet (UV) light is a practical way to kill many pathogens, such as *Giardia lamblia*. Water systems that treat surface water are required to provide 99.9 percent removal and/or inactivation of *Giardia lamblia*. In 1989, when the U.S. Environmental Protection Agency (EPA) developed this requirement, chemical disinfection and filtration were the only ways to meet this public health protection standard. Since then, researchers have discovered that UV very effectively inactivates *Giardia lamblia*.

In 2001, the Office of Drinking Water (ODW) issued guidelines supporting UV disinfection of surface water. We developed these guidelines well before guidance from EPA was available. However, our guidelines did not address how long UV treatment could be interrupted without risk to public health.

UV Reactor in Richland, Washington

The new UV policy spells this out. In short, water systems that install UV treatment on surface water sources must provide continuous disinfection and take follow-up actions if a UV reactor does not provide the required UV dose for 15 or more minutes.

This policy is titled ***Ultraviolet Disinfection Monitoring for Filtered Water Systems Complying with the Surface Water Treatment Rule.*** It clarifies monitoring and reporting requirements for certain water systems that use UV treatment to inactivate *Giardia lamblia*. We reviewed regulatory requirements along with practical aspects of UV disinfection to develop this policy.

### More information

For a copy of the UV policy, please call Michelle Austin at (360) 236-3156 or e-mail michelle.austin@doh.wa.gov

For technical information on UV disinfection, please call Sam Perry at (253) 395-6755 or e-mail sam.perry@doh.wa.gov

# Water System Acquisition and Rehabilitation Program (WSARP) 2007

The 2007 Legislature approved $2.75 million for a competitive WSARP grant program. The WSARP program provides partial grants to identify, acquire and rehabilitate public water systems that have water quality problems or have deteriorated to a point where public health is an issue.

Applicants must be a county, city, or special purpose district that already owns and operates at least one Group A public water system. Applicants must demonstrate a track record of sound drinking water utility management. Eligible jurisdictions may receive up to $687,500. Eligible costs include pre-acquisition, acquisition, connection charges, pre-construction and construction.

A 50 percent funding match is required.

**Applications must be postmarked by midnight or hand-delivered by 5 p.m. October 15, 2007.**

Applications and funding guidelines are online at http://www.doh.wa.gov/ehp/dw/wsarp/wsarp.htm

For more information, please call Aleceia Tilley at (360) 236-3095 or e-mail aleceia.tilley@doh.wa.gov

## *Vulnerability Assessments* Will EPA Call You?

In Washington, 48 water systems don't meet requirements under the 2002 Public Health Security and Bioterrorism Preparedness and Response Act. Violations include failing to submit a vulnerability assessment and/or failing to submit a vulnerability certification or emergency response plan certification to the U.S. Environmental Protection Agency (EPA).

These systems will receive a call from an EPA contractor asking about the status of their missing products.

The 2002 Bioterrorism Act requires every community water system serving more than 3,300 persons to:

- Conduct a vulnerability assessment.
- Certify and submit a copy of the assessment to EPA by a specified time.
- Prepare or revise an emergency response plan incorporating the results of the vulnerability assessment.
- Certify to EPA that the system completed such a plan within six months of completing the vulnerability assessment.

More information on this topic, including the vulnerability assessment certification and emergency response plan certification forms, is online at http://www.doh.wa.gov/ehp/dw/Security/vulnerability_assess.htm

## Getting water system data easy as 1. 2. 3.

The Office of Drinking Water developed new "Quickstart" instructions to help you get data from our Sentry Internet water system database. Instructions are easy-to-read online and in a format (PDF) for printing and using as a reference when you access Sentry Internet.

You can easily view and print water quality data to produce your Consumer Confidence Report, Water Facility Inventory, information for pre-adequacy reports and sanitary surveys, system contacts, and much more.

All you have to do is:

1. Go to the Web page at http://www.doh.wa.gov/ehp/dw/sentry.htm and print the "Quickstart" and "Disable pop-up blocker" instructions.
2. Follow the instructions to disable the "Pop-up blockers" on your computer.
3. Click on the Sentry Internet link at the top of the page and follow the "Quickstart" instructions to get your data.

If you have questions, call the ODW help desk at (360) 236-3113 or send an e-mail to helpdesk.eh@doh.wa.gov

You can also get water system data by contacting your ODW regional office.

# New Fact Sheet

## Transition from Stage 1 to Stage 2 Disinfection Byproducts Rule Monitoring

Some systems have expressed confusion about letters they've received about required monitoring for disinfection byproducts from both the Office of Drinking Water (ODW) and the U.S. Environmental Protection Agency (EPA). There is a simple explanation for the two letters:

- ODW is enforcing the Stage 1 Disinfectants and Disinfection Byproducts Rule (Stage 1 DBPR).
- EPA is enforcing the requirements of Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 DBPR) until ODW adopts the Stage 2 DBPR.

During the transition from Stage 1 DBPR to Stage 2 DBPR, some systems will need to monitor to meet both Stage 1 DBPR and Stage 2 DBPR.

After 2014, all affected systems will monitor for Total Trihalomethanes and Haloacetic Acids according to the Stage 2 DBPR. Monitoring for other chemicals, such as bromate, chlorite and disinfectant residuals, will continue as required by Stage 1 DBPR.

For an overview of Stage 1 and Stage 2 DBPR differences and key compliance dates, see the ***Transition from Stage 1 to Stage 2 Disinfection Byproducts Rule Monitoring*** fact sheet online at http://www4.doh.wa.gov/dw/publications/publications.cfm

### For information on Stage 1 DBPR monitoring

Call the Office of Drinking Water.

**DBP Program Coordinator** – Kent: Ethan Moseng (253) 395-6770

**Eastern Region** – Spokane: Dan Mathias (509) 456-2774

**Northwest Region** – Kent: Jolyn Leslie (253) 395-6762

**Southwest Region** – Tumwater: Regina Grimm (360) 236-3035

### For information on Stage 2 DBPR requirements

Call Wendy Marshall, EPA, at (206) 553-1890. For detailed instructions on how to comply, view ***Complying with the Stage 2 Disinfectants and Disinfection Byproducts Rule: Small Entity Compliance Guide*** on the EPA Web site at http://www.epa.gov/safewater/disinfection/stage2/compliance.html#pws. See related story on page 7.

Marshall will give an overview of the Stage 2 rule at the Drinking Water Seminars. (See page 19.)

# State Rulemaking Activities

## Fee Increase

In June 2007, the Office of Drinking Water (ODW) held a public hearing in Tumwater to accept comments on a fee increase for water system project reviews and approvals (WAC 246-290). The fees will increase by 3.38 percent for Group A water systems that submit documents to ODW for evaluation, review and approval, such as:

- Construction documents
- Water system plans
- Storage tank installation
- Treatment systems
- Other services

The new fees went into effect in August 2007.

## Group B Public Water Systems – Rule revision under consideration

At the direction of the State Board of Health, ODW evaluated the Group B Program (WAC 246-291). Results show that we need to consider rule changes that will improve public health protection and water system operation while considering necessary resources. We plan to fix problems with interpretation and implementation of the rule. ODW will create a workgroup to address issues and develop recommendations.

Rule development timeline:

| | |
|---|---|
| April 2008 | Complete first draft regulation |
| May 2008 | Informal review of draft regulation |
| September 2008 | Formal public hearings |
| December 2008 | Rule adoption |
| January 2009 | Rule effective |

## Municipal Water Law and the Long Term 2 Enhanced Surface Water Treatment Rule

ODW is revising the Planning and Engineering portions of WAC 246-290 to be consistent with the 2003 Municipal Water Law. At the same time, we are adopting the federal Long Term 2 Enhanced Surface Water Treatment Rule, as required by EPA, and making minor rule modifications to correct errors and clarify requirements.

We are doing stakeholder outreach and will modify the rule based on comments received. We will mail the proposed rule language and supporting documents to public water systems and interested parties during the first week of October. We encourage you to comment.

Public hearings tentatively are scheduled for 1 p.m. October 22 at Spokane Community College, and 1 p.m. October 23 at the Lacey Community Center. We will accept formal comments through October 31, 2007. We plan to adopt the rule December 31, 2007, with an effective date of January 31, 2008.

For more information about ODW rulemaking activities, call Theresa Phillips, lead rules coordinator, at (360) 236-3147, e-mail theresa.phillips@doh.wa.gov, call Michelle Austin at (360) 236-3156, e-mail michelle.austin@doh.wa.gov, or visit our Web site at http://www.doh.wa.gov/ehp/dw/our_main_pages/regula.htm

# Federal Stage 2 Disinfectants and Disinfection Byproducts Rule

ODW is asking the U.S. Environmental Protection Agency (EPA) to extend our deadline to adopt the Stage 2 Rule. The extension gives us time to gain the resources necessary to adopt and implement the rule. Final state adoption of the rule is planned for January 2010. During the extension period, EPA will implement the primary program elements. If you need technical assistance, please call Wendy Marshall, EPA, at (206) 553-1890.

For more information, see the new fact sheet referenced on page 6.

# The Unregulated Contaminant Monitoring Rule (UCMR2)

If you operate or manage a community or non-transient non-community water system serving 10,000 or more people – and you don't purchase 100 percent of your treated water – this rule could affect you.

The U.S. Environmental Protection Agency (EPA) should have notified affected systems prior to June 4, 2007, about their requirements under the UCMR2.

If you believe EPA should have contacted you, but you did not receive a notification letter, please call (800) 949-1581, e-mail UCMR_Sampling_Coordinator@epa.gov or mail correspondence to:

UCMR Sampling Coordinator
USEPA Technical Support Center
26 West Martin Luther King Dr. (MS-140)
Cincinnati, OH 45268

If you have questions, please call Gene Taylor, EPA Region 10, at (206) 553-1389.

# Everett exercise shows the importance of relationships and communications

While preparing for the D-Day invasion, General Dwight D. Eisenhower said, "The plan is nothing. Planning is everything." His meaning is clear to everyone who participated in the City of Everett's tabletop exercise in March. Their efforts to build relationships and understand the roles and responsibilities of fellow responders will prove to be more important than the plan itself. Participants also placed a high value on their ability to bridge communication gaps over the one-day exercise.

The Pacific Northwest is prone to all types of emergencies. Flooding in Western Washington last winter had some devastating consequences and affected nearly half the state's counties. That's why Carl Baird, from the City of Everett, designed the tabletop scenario as an eight-day flood.

The exercise tested the participants' ability to communicate among agencies and with the public. They also identified real and potential communication gaps, explored ways to build strong relationships at the local level and considered ways to sustain them over time.

All emergencies are local events first, regardless of the type and severity. That means local agencies must act accordingly to protect the people and property in their communities. At the same time, local agencies are not alone; they have several layers of help from the county, state and federal levels.

Everett's exercise is a good example of these layers. The Office of Drinking Water (ODW) secured funding from the U.S. Environmental Protection Agency. The Water Environment Federation served as the grant contractor for local arrangements. Ross & Associates provided facilitators.

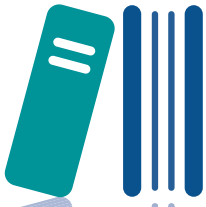
Local fire, EMS, HAZMAT and public works staff worked side by side with the Everett police department, city emergency management and local hospitals. ODW represented the state. County participants included Snohomish Health District, the Sheriff's Department, the Department of Emergency Management and the 911 call center. Two of Everett's water wholesale customers and a member of the Everett City Council also participated.

A flood scenario triggers collaboration from responders at Everett's tabletop exercise.

The value of relationships can't be overstated. During the debriefing, state health officials and other responders described how helpful it was to have a working relationship with the water and wastewater utilities. Others noted the value of their relationships within the response community. Some local responders, including county health, noted how effective it was to have state health officials actually on scene to offer assistance. State health officials agreed.

This teamwork is the mechanism that makes the plan effective. It proves, yet again, that it's the planning, not the plan, that matters.

# Water Use Efficiency Update



## The Water Use Efficiency Guidebook is Here

A workgroup led by Mike Dexel, water resources policy lead for the Office of Drinking Water (ODW), completed the new guidebook in July. It will help water systems understand and meet the requirements of the new Water Use Efficiency Rule.

The eight-chapter guidebook addresses nearly every piece of the rule. It explains how the rule affects water systems, and how it will change the way they do business. It includes an appendix full of examples, worksheets and an annual reporting form to help systems comply.

The 13-member workgroup included ODW staff and external stakeholders from various fields of expertise. We used Governor Gregoire's Plain Talk principles while writing the guidebook to translate a lot of the regulatory language into easy-to-understand text.

## Water Use Efficiency Training

Now that the guidebook is completed, training is our next priority. All attendees will receive a copy of the guidebook.

- Evergreen Rural Water of Washington will provide training at 20 locations across the state beginning this month. It is free for small systems serving 3,300 or fewer people. See the training calendar on page 10.
- Training for systems with 1,000 or more connections will debut this fall at our Drinking Water Seminars. We encourage consultants to attend, too. See page 19 for details.

## For more information

For a copy of ***Getting started: Water use efficiency guidebook (331-375)***, related fact sheets and ODW training opportunities, visit the Web site at http://www.doh.wa.gov/ehp/dw/municipal_water/water_use_efficiency_rule.htm

## IACC Conference in October

# *Register today!*

The Infrastructure Assistance Coordinating Council (IACC) will hold its fall conference October 23-25 at the West Coast Wenatchee Hotel. This conference features training and program sessions on infrastructure funding and technical assistance. Jurisdictions that register for help prior to the conference will be scheduled to discuss their specific infrastructure problems with a technical team.

For more information or to register, call Bill Cole, Public Works Board, at (360) 586-4125.

The IACC database at http://www.infrafunding.wa.gov is your resource for locating infrastructure funding or technical assistance in Washington.

# Training and Education Calendar: Sept. 2007 - Jan. 2007

| Date | Topics | Location | Contact | Phone # | Cost/CEU |
|---|---|---|---|---|---|
| Sept 14 | Basic Electrical | Spanaway | ERWOW | 1-800-272-5981 | $50/$95/$105/0.8* |
| Sept 14 | BTO/WTPO OIT and Level 1 Cert Exam Review | Spokane | WETRC | 1-800-562-0858 | $50/0.7* |
| Sept 14 | Water Distribution Specialist Cert Exam Review | Auburn | WETRC | 1-800-562-0858 | $50/0.7* |
| Sept 17-19 | Basic Electrical | Auburn | WETRC | 1-800-562-0858 | $50/$295/2.1* |
| Sept 17-19 | Pump Operation & Maintenance | Auburn | WETRC | 1-800-562-0858 | $50/$275/2.1* |
| Sept 18 | Water Use Efficiency | Yakima | ERWOW | 1-800-272-5981 | Free/0.7 |
| Sept 18-20 | BAT Refresher Course | Auburn | WETRC | 1-800-562-0858 | $330/2.1 |
| Sept 18-20 | Cross Connection Control Specialist Exam Review | Moses Lake | ERWOW | 1-800-272-5981 | $50/$200/$250/2.1* |
| Sept 18-20 | Cross Connection Control Basics and Exam Review | Spokane | WETRC | 1-800-562-0858 | $50/$275/2.1* |
| Sept 18-20 | Water Distribution Manager Exam Review | Olympia | ERWOW | 1-800-272-5981 | $50/$200/$250/2.2* |
| Sept 19 | Basic Water Works Math | Spanaway | ERWOW | 1-800-272-5981 | Free/0.5 |
| Sept 19 | Water Use Efficiency | Ellensburg | ERWOW | 1-800-272-5981 | Free/0.7 |
| Sept 20 | Water Use Efficiency | Wenatchee | ERWOW | 1-800-272-5981 | Free/0.7 |
| Sept 24 | Water Quality Cmplnts: Rspnse, Investigation & Recov | Auburn | WETRC | 1-800-272-5981 | $115/0.8 |
| Sept 24-26 | Water Distribution Certification Exam Review | Auburn | WETRC | 1-800-562-0858 | $50/$285/2.1* |
| Sept 24-28 | BAT Certification Class | Spokane | WETRC | 1-800-562-0858 | $645/3.7 |
| Sept 25 | Water Use Efficiency | Bremerton | ERWOW | 1-800-272-5981 | Free/0.7 |
| Sept 26 | Water Use Efficiency | Pt. Angeles | ERWOW | 1-800-272-5981 | Free/0.7 |
| Sept 27 | Water Use Efficiency | Shelton | ERWOW | 1-800-272-5981 | Free/0.7 |
| Oct 2 | Asbestos Cement Pipe Work Practice Procedures | Auburn | WETRC | 1-800-562-0858 | $155/0.7 |
| Oct 2-3 | Advanced CCC: Risk Assessment & Hazard Analysis | Spokane | WETRC | 1-800-562-0858 | $175/1.4 |
| Oct 3 | Confined Space Entry | Everett | WETRC | 1-800-562-0858 | $50/$140/0.7* |
| Oct 3 | Weapons of Mass Destruction Awareness Training | Auburn | WETRC | 1-800-562-0858 | $75/0.5 |
| Oct 4 | Backflow Incident Investigation & Response | Spokane | WETRC | 1-800-562-0858 | $115/0.7 |
| Oct 4 | Water Quality Cmplnts: Rspnse, Investigation & Recov | Spokane | WETRC | 1-800-272-5981 | $115/0.8 |
| Oct 4-5 | Competent Person Cave-In Protection | Everett | WETRC | 1-800-562-0858 | $50/$245/1.4* |
| Oct 5 | Electrical Troubleshooting for Water & Wastewater | Moses Lake | ERWOW | 1-800-272-5981 | $50/$95/$105/0.7* |
| Oct 5-26 | Backflow Assembly Tester Certification Course | Vancouver | WETRC | 1-800-562-0858 | $645/3.7 |
| Oct 8-12 | BAT Certification Class | Spokane & Auburn | WETRC | 1-800-562-0858 | $645/3.7 |
| Oct 8-9 | Process Control & Instrumentation | Auburn | WETRC | 1-800-562-0858 | $50/$245/1.4* |
| Oct 9 | Water Quality Emergencies | Everett | ERWOW | 1-800-272-5981 | $50/$95/$105/0.6* |
| Oct 9 | Automatic Control Valves | Yakima | ERWOW | 1-800-272-5981 | Free/0.7 |
| Oct 10 | Water Quality Emergencies | Redmond | ERWOW | 1-800-272-5981 | $50/$95/$105/0.6* |
| Oct 10 | Water Use Efficiency | Tacoma | ERWOW | 1-800-272-5981 | Free/0.7 |
| Oct 11 | Water Use Efficiency | Spokane | ERWOW | 1-800-272-5981 | Free/0.7 |
| Oct 12 | Water Use Efficiency | Colville | ERWOW | 1-800-272-5981 | Free/0.7 |
| Oct 15 | Sampling & Distribution System Monitoring | Tacoma | ERWOW | 1-800-272-5981 | $50/$100/$110/0.7* |
| Oct 16 | Managing a Public Water System | Yelm | ERWOW | 1-800-272-5981 | $50/$95/$105/0.7* |
| Oct 16 | Competent Person | Shelton | ERWOW | 1-800-272-5981 | $50/$100/$110/0.5* |
| Oct 16-18 | BAT Refresher Course | Auburn & Spokane | WETRC | 1-800-562-0858 | $330/2.1 |
| Oct 17 | Sampling & Distribution System Monitoring | Longview | ERWOW | 1-800-272-5981 | $50/$100/$110/0.7* |

**Operators of Group A small water systems serving 3,300 people or less will be charged a $50 registration fee for these classes.*

# Training and Education Calendar: Sept. 2007 - Jan. 2007

| Date | Topics | Location | Contact | Phone # | Cost/CEU |
|---|---|---|---|---|---|
| Oct 17-19 | Pump Operation & Maintenance | Yakima | WETRC | 1-800-562-0858 | $50/$275/2.1* |
| Oct 19 | Sampling & Distribution System Monitoring | Spokane | ERWOW | 1-800-272-5981 | $50/$100/$110/0.7* |
| Oct 22-23 | Advanced BAT, Troubleshooting & Repair | Spokane | WETRC | 1-800-562-0858 | $285/1.4 |
| Oct 23 | Basic Operation & Maintenance of Pumps | Richland | ERWOW | 1-800-272-5981 | $50/$95/$105/0.4* |
| Oct 23 | IDSE-Standard Monitoring Evaluation | Shelton | ERWOW | 1-800-272-5981 | $110/$120/0.7 |
| Oct 23 | Water Use Efficiency | Richland | ERWOW | 1-800-272-5981 | Free/0.7 |
| Oct 24 | Basic Operation & Maintenance of Pumps | Yakima | ERWOW | 1-800-272-5981 | $50/$95/$105/0.4* |
| Oct 24 | Water Use Efficiency | Walla Walla | ERWOW | 1-800-272-5981 | Free/0.7 |
| Oct 24-25 | Fire Hydrants: Installation, Testing, Operation & Repair | Spokane | WETRC | 1-800-562-0858 | $50/$245/1.4* |
| Oct 24-26 | Water & Wastewater Disinfection | Auburn | WETRC | 1-800-562-0858 | $50/$285/2.1* |
| Oct 25 | IDSE-Standard Monitoring Evaluation | Ellensburg | ERWOW | 1-800-272-5981 | $110/$120/0.7 |
| Oct 25 | Water Use Efficiency | Pullman | ERWOW | 1-800-272-5981 | Free/0.7 |
| Oct 26 | Incident Command System & NIMS Training | Wenatchee | WETRC | 1-800-562-0858 | $135/0.8 |
| Oct 29 | Office of Drinking Water Seminar | Spokane Valley | Preferred Planners | 1-866-417-7776 | $40/0.3/0.6 |
| Oct 30 | Managing a Public Water System | Richland | ERWOW | 1-800-272-5981 | $50/$95/$105/0.7* |
| Oct 30 | Office of Drinking Water Seminar | Pasco | Preferred Planners | 1-866-417-7776 | $40/0.3/0.6 |
| Nov 2 | Basic Electrical | Shelton | ERWOW | 1-800-272-5981 | $50/$95/$105/0.8* |
| Nov 2 | Incident Command System & NIMS Training | Richland | WETRC | 1-800-562-0858 | $135/0.8 |
| Nov 5-7 | Pump Operation & Maintenance | Everett | WETRC | 1-800-562-0858 | $50/$275/2.1* |
| Nov 5-9 | BAT Certification Class | Spokane & Auburn | WETRC | 1-800-562-0858 | $645/3.7 |
| Nov 5-14 | BAT Refresher Course | Vancouver | WETRC | 1-800-562-0858 | $330/1.5 |
| Nov 6 | Office of Drinking Water Seminar | Mt. Vernon | Preferred Planners | 1-866-417-7776 | $40/0.3/0.6 |
| Nov 6 | Water Quality Emergencies | Ellensburg | ERWOW | 1-800-272-5981 | $50/$95/$105/0.6* |
| Nov 7 | Water Use Efficiency | Centralia | ERWOW | 1-800-272-5981 | Free/0.7 |
| Nov 7-9 | Water in the PNW: Moving Science into Policy & Action | Stevenson | WSU | 1-509-335-3530 | TBD/11.5 |
| Nov 8 | Assuring a Safe, Reliable & Efficient Water Supply | Chelan | ERWOW | 1-800-272-5981 | TBA* |
| Nov 8 | Office of Drinking Water Seminar | Olympia | Preferred Planners | 1-866-417-7776 | $40/0.3/0.6 |
| Nov 8-9 | Competent Person Cave-In Protection | Auburn | WETRC | 1-800-562-0858 | $50/$245/1.4* |
| Nov 9 | Water Use Efficiency | Longview | ERWOW | 1-800-272-5981 | Free/0.7 |
| Nov 13 | Water Use Efficiency | Moses Lake | ERWOW | 1-800-272-5981 | Free/0.7 |
| Nov 13-15 | BAT Refresher Course | Auburn & Spokane | WETRC | 1-800-562-0858 | $330/2.1 |
| Nov 13-15 | Water & Wastewater Disinfection | Richland | WETRC | 1-800-562-0858 | $50/$285/2.1* |
| Nov 14-16 | Water & Wastewater Disinfection | Spokane | WETRC | 1-800-562-0858 | $50/$275/2.1* |
| Nov 14 | Water Use Efficiency | Omak | ERWOW | 1-800-272-5981 | Free/0.7 |
| Nov 15 | Assuring a Safe, Reliable & Efficient Water Supply | Tacoma | ERWOW | 1-800-272-5981 | TBA* |
| Nov 20 | Water Use Efficiency | Mt. Vernon | ERWOW | 1-800-272-5981 | Free/0.7 |
| Nov 27 | General Overview of Water Works Operations | Moses Lake | ERWOW | 1-800-272-5981 | TBA |
| Nov 28 | Water Use Efficiency | Bellingham | ERWOW | 1-800-272-5981 | Free/0.7 |
| Nov 29 | Water Use Efficiency | Anacortes | ERWOW | 1-800-272-5981 | Free/0.7 |
| Nov 29-30 | Process Control & Instrumentation | Everett | WETRC | 1-800-562-0858 | $50/$245/1.4* |
| Nov 30 | Water Use Efficiency | Vancouver | ERWOW | 1-800-272-5981 | Free/0.7 |

**Operators of Group A small water systems serving 3,300 people or less will be charged a $50 registration fee for these classes.*

# Training and Education Calendar: Sept. 2007 - Jan. 2007

| Date | Topics | Location | Contact | Phone # | Cost/CEU |
|---|---|---|---|---|---|
| Dec 3-4 | Advanced CCC: Risk Assessment & Hazard Analysis | Auburn | WETRC | 1-800-562-0858 | $175/1.4 |
| Dec 3-8 | Basic Electrical | Richland | WETRC | 1-800-562-0858 | $50/$295/2.1* |
| Dec 3-7 | BAT Certification Class | Auburn | WETRC | 1-800-562-0858 | $645/3.7 |
| Dec 3-12 | BAT Refresher Course | Spokane | WETRC | 1-800-562-0858 | $330/1.5 |
| Dec 4 | Water System Operations Changing Regulations | Moses Lake | ERWOW | 1-800-272-5981 | $50/$100/$110/0.7* |
| Dec 5 | Backflow Incident Investigation & Response | Auburn | WETRC | 1-800-562-0858 | $115/0.7 |
| Dec 6 | Confined Space Entry | Auburn | WETRC | 1-800-562-0858 | $50/$140/0.7* |
| Dec 7 | Incident Command System & NIMS Training | Everett | WETRC | 1-800-562-0858 | $135/0.8 |
| Dec 10-12 | Water Works Basics | Auburn | WETRC | 1-800-562-0858 | $50/$285/2.1* |
| Dec 10-14 | BAT Certification Class | Spokane | WETRC | 1-800-562-0858 | $645/3.7 |
| Dec 11 | Water System Operations Changing Regulations | Bremerton | ERWOW | 1-800-272-5981 | $50/$100/$110/0.7* |
| Dec 13 | General Overview of Water Works Operations | Tacoma | ERWOW | 1-800-272-5981 | TBA |
| Dec 18-20 | BAT Refresher Course | Auburn & Spokane | WETRC | 1-800-562-0858 | $330/2.1 |
| Jan 7-9 | Cross Connection Control Basics And Exam Review | Auburn | WETRC | 1-800-562-0858 | $275/2.1 |
| Jan 7-16 | BAT Refresher Course | Vancouver | WETRC | 1-800-562-0858 | $330/1.5 |
| Jan 9-11 | Water Distribution Certification Exam Review | Auburn | WETRC | 1-800-562-0858 | $285/2.1 |
| Jan 15-17 | BAT Refresher Course | Spokane | WETRC | 1-800-562-0858 | $330/2.1 |
| Jan 23-25 | Water & Wastewater Disinfection | Everett | WETRC | 1-800-562-0858 | $285/2.1 |

**Operators of Group A small water systems serving 3,300 people or less will be charged a $50 registration fee for these classes.*

***Our training calendar is updated quarterly; please visit the additional training links for current information.***

For information about distance learning activities, call WETRC at (800) 562-0858

### Additional Training Links:

AWWA King County Subsection Web site—**http://www.kcawwa.org/**

ERWOW Web site—**http://www.erwow.org/**

WETRC Web site—**http://www.wetrc.org/**

AWWA Pacific Northwest Section Web site—**http://www.pnws-awwa.org/**

EPA Electronic Workshops Web site—**http://www.epa.gov/safewater/dwa/electronic.html** (No CEU assigned to these courses.)

***For the complete Training Calendar, visit the Drinking Water Homepage and click on Training - http://www.doh.wa.gov/ehp/dw***

*NOTE: Links to external resources are provided as a public service, and do not imply endorsement by the Washington State Department of Health.*

# Arsenic sampling final reminder

The arsenic rule requires all Group A community and non-transient non-community water systems to sample each active permanent or seasonal source for arsenic during the 2005-2007 compliance period.

Some systems that received a waiver for inorganic monitoring may still be required to take an arsenic sample.

The Office of Drinking Water reviewed sampling records and sent postcards in July to water systems still needing a sample. If you did not already take an arsenic sample in the 2005-2007 compliance period, you must do so before January 2008 to remain in compliance with the rule. If you have questions, please call your ODW regional office.

# 2007 Qualified Sanitary Surveyor Training Completed

The Office of Drinking Water (ODW) continues to provide training to staff at local health jurisdictions and to independent contractors who want to become qualified sanitary surveyors in Washington. Qualified sanitary surveyors conduct field inspections and report results to ODW. The training also helps people already qualified remain current in the field.

Earlier this year, 27 people attended the Phase 1 Technical Training Course in Ellensburg, and 22 attended the Phase 2 Field Training in Shelton.

The 2007 classes emphasized the Small Water System Management Program as a critical tool to help smaller water systems provide safe and reliable drinking water. The Phase 2 class included an update on the Water Use Efficiency Rule and other ODW activities.

There is interest in holding an advanced class for experienced surveyors in 2008. This new class would allow participants to learn about emerging ODW issues and special information related to small systems. It also would give them an opportunity to share surveying experiences, which would bring additional value to the water systems they survey.

For more information about the Qualified Sanitary Surveyor Program and 2008 training, please call Jim Harksen at (360) 236-3180 or e-mail jim.harksen@doh.wa.gov

# New video will help you prepare for a sanitary survey

Sanitary surveys are an important part of Washington's drinking water program. A sanitary survey is an on-site inspection of a water system's sources, facilities, operations and records. The inspection identifies conditions that may present a sanitary or public health risk. State rules require a sanitary survey on a routine basis.

The Office of Drinking Water developed a 45-minute video to help you prepare for a sanitary survey. It features a third party sanitary surveyor conducting a survey of a small Group A water system.

The video will tell you what a sanitary survey is, and why it is an important part of a water system's program to ensure safe and reliable drinking water. It will be very helpful for a water system manager, operator or board member who is unfamiliar with sanitary surveys. It covers:

- Preparing for a sanitary survey
- Records review
- Source and pumping facilities
- Finished water storage
- Source treatment
- Booster pumps and pressure tanks

The U.S. Environmental Protection Agency provided funding for the video. To order a copy, visit us online at http://www4.doh.wa.gov/dw/publications/publications.cfm or call (800) 521-0323.

If you have questions about this video, please call Ronni Woolrich at (360) 236-3092 or e-mail ronni.woolrich@doh.wa.gov

# Performance-Based Training – Proven Results

The Office of Drinking Water (ODW) recently concluded an 18-month performance-based training pilot with eight surface water systems in Southwest Washington. Each of these systems uses complex rapid-rate filtration to treat surface supplies.

Performance-based training (PBT) objectives involve optimizing existing water system treatment facilities through administrative, operational and minor facility changes. While these improvements generally don't involve major or capital-intensive process changes, they do:

1. Address common performance-limiting factors.
2. Improve surface-water treatment plants' ability to protect against pathogens such as *Giardia* and *Cryptosporidium*.
3. Promote peer-to-peer communication on technical, leadership and management issues related to water treatment optimization.

ODW provided the training to help the systems pursue treatment optimization goals that maximize public health protection from microbial contaminants commonly found in surface water.

## Format

PBT is notably different from traditional classroom training. A facilitator provides on-going, one-on-one support to the operator. This direct involvement provides guidance and motivation to help operators apply new or rediscovered knowledge in their plants.

The training combined five classroom sessions in surface-water treatment principles and practices with hands-on training, over a 12-month period. A six-month evaluation period followed.

## Results

To gauge how well the training worked, we reviewed plant performance to answer two questions:

1. Are the eight plants performing significantly better following training?
2. Is there any demonstrable long-term improvement in performance?

Peer communication on technical issues related to water treatment optimization is key to PBT. Ric Saavedra, left, and Victor Richards (both from Longview Water System) discuss the finer points of jar testing.

Average NTUs (nephelometric turbidity units) for the 12-month training period and the 6-month follow-up period were compared to the baseline year. (See chart on page 15.)

### *At the end of the pilot:*

We found that, despite significant challenges, five participants improved their combined filtered water turbidities, with a 21 percent overall reduction in turbidity. Two facilities met the optimized performance goal of 0.10 NTU for the 95th percentile of the maximum daily combined filter effluent.

### *At the end of the follow-up period:*

The average combined filter water turbidity for the follow-up period was about 16 percent lower than the base period. While this reduction is not as impressive as it was during the PBT period, it is still noteworthy because it occurred while severe weather affected raw-water quality for all of the PBT participants.

Unusually heavy rainfall and flooding in November 2006 compromised performance improvement for most of the facilities during the follow-up period. Also, one plant experienced a major mechanical failure that affected its performance.

*(Continued on next page)*

**PBT Results – Turbidity Performance Improvement from Baseline Year**

*(Based on the average 95th percentile combined filter NTU for the given reporting period.)*

| | Baseline Year 7/04 – 6/05 | PBT Year 7/05 – 6/06 | Turbidity Reduction | Follow-up period 7/06–12/06 | Turbidity Reduction |
|---|---|---|---|---|---|
| Average for all 8 systems | 0.19 NTU | 0.15 NTU | 21.1 % | 0.16* NTU | 15.8* % |

** Data shows performance improvement despite deteriorated raw water quality.*

The results indicate that multiple treatment plants can achieve lasting, measurable improvement using the PBT approach – classroom and hands-on training sessions, application in individual plants, communication among operators, and regular facilitator follow-up.

### What's ahead?

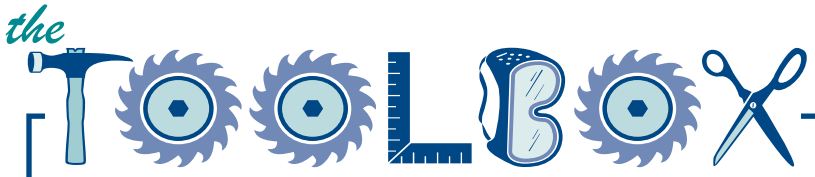
Given the success of the pilot project, we are planning a second PBT series for surface water systems in the Northwest region. It will start late this year or early next year. We want to continue improving public health protection by helping systems overcome common performance limitations.

### For more information

Visit the ODW Web site at http://www.doh.wa.gov/ehp/dw/Programs/surface_water.htm

To view the ODW treatment performance goals on the Web site, click on "Treatment Optimization Program" in the right column.

To see water systems that met these goals in 2006, click on "Performance of Rapid Rate Filtration Plants in Washington" in the right column.




**Small Utility Board Training** - Being a decision maker for a small water utility can be a challenge. This free CD-ROM course is designed to help water system board members and elected officials understand the basic principles of public water system regulations, planning and budgeting, and communication. It features interviews with actual board members, meeting coverage, water system procedures, and emergency scenarios. It also contains printable manuals users can download. This three-hour course was produced by the Montana Water Center at Montana State University. To order, call (800) 624-8301 and ask for item DWCDTR23 or e-mail watercenter@montana.edu

**Emergency Response Planning Toolbox for Small Water and Wastewater Systems** - The "RCAP Security Toolbox" consists of five core modules, appendices, and introductory text that relates security and emergency preparedness to best practices of system operation and management. The appendices include resources, a glossary, an emergency notification and contact list, eBulletin subscription forms, and PowerPoint training presentations. Visit the Rural Community Assistance Partnership online at http://www.watertrust.org/toolbox/TOC.html

# Calendar

## *Opportunities and requirements you don't want to miss!*

### Nitrate sampling requirements

Third-quarter nitrate samples are due September 30, 2007.

Fourth-quarter and annual nitrate samples are due December 31, 2007.

### Arsenic sampling requirements

Arsenic samples for 2005-2007 are due by December 31, 2007.

### Water use efficiency (WUE) requirements

| Requirement | Deadline for municipal water suppliers under 1,000 connections | Deadline for municipal water suppliers with 1,000 or more connections |
|---|---|---|
| Begin collecting production and consumption data | January 1, 2008 | January 1, 2007 |
| Include WUE program in planning documents | January 22, 2008 | January 22, 2008 |
| Set your own WUE goals | January 22, 2009 | January 22, 2008 |
| Submit service meter installation schedule | July 1, 2009 | July 1, 2008 |
| Submit first annual performance report | July 1, 2009 | July 1, 2008 |
| Meet distribution leakage standard (based on 3-year rolling average) | July 1, 2011, or three years after installing all service meters | July 1, 2010, or three years after installing all service meters |
| Complete installation of all service meters | January 22, 2017 | January 22, 2017 |

### Backflow assembly tester exam schedule

| BAT Certification Examinations | | BAT Professional Growth Examinations | |
|---|---|---|---|
| 3rd Monday of each month, *except holidays* | | 3rd Friday of each month, *except holidays* | |
| Auburn Station and Spokane | | Auburn Station and Spokane | |
| Sept. 17, 2007 | Oct. 15, 2007 | Sept. 21, 2007* | Oct. 19, 2007 |
| Nov. 19, 2007* | Dec. 17, 2007 | Nov. 16, 2007* | Dec. 21, 2007* |

For information, please call Pamela Basquez at (800) 562-0858, extension 2, or visit Certification Services online at http://www.wacertservices.org/

**Also available in Vancouver.*

*(Continued on next page)*

## *Calendar...* *(Continued from Page 16)*

### 2007 & 2008 operator certification exam schedule

Dates, times and locations are subject to change due to site availability. Applicants will receive a letter four to six weeks before the exam date.

| Exam Date | Exam Date | Exam Date | Exam Date | Application Deadlines | Retake Application Deadlines |
|---|---|---|---|---|---|
| Bellingham<br>Port Angeles<br>Seattle<br>Spokane<br>Vancouver<br>Yakima | Olympia<br>Seattle<br>Wenatchee | Olympia<br>Pasco | Mount Vernon | | |
| February 5, 2008 | February 6, 2008 | February 7, 2008 | February 8, 2008 | November 7, 2007 | December 5, 2007 |
| June 3, 2008 | June 4, 2008 | June 5, 2008 | June 6, 2008 | March 5, 2008 | April 4, 2008 |
| October 7, 2008 | October 8, 2008 | October 9, 2008 | October 10, 2008 | July 9, 2008 | August 8, 2008 |

If you have questions about the examination process, or to order an application packet, call Larry Granish at (800) 525-2536, ext. 1, or e-mail larry.granish@doh.wa.gov You can also order an application packet online at http://www.doh.wa.gov/ehp/dw/our_main_pages/opcertification.htm

# Ecology – Health Memorandum of Understanding

The Department of Health Office of Drinking Water (ODW) works collaboratively with the Department of Ecology Water Resources Program (Ecology) on numerous topics affecting public water systems. To formalize this relationship, ODW and Ecology have a Memorandum of Understanding (MOU).

The two agencies updated the MOU in May 2007. Below are a few highlights of areas where DOH and Ecology coordinate.

### Reviewing Water Rights Assessments

Water systems are required to include an assessment of their water rights as part of all planning documents and certain engineering documents. Because water rights are under Ecology's authority, ODW sends applicable planning and engineering documents to Ecology so they can review the water rights assessment. ODW uses this information and the system's engineering analysis to determine the water system's capacity.

### Expanding a Water Rights Place of Use

As part of the 2003 Municipal Water Law, municipal water suppliers may expand their water right's place of use through an ODW-approved planning or engineering document if:

1. The document is "not inconsistent" with local comprehensive plans, development regulations and approved watershed plans.
2. The water system is in compliance with the terms of their planning document.

The MOU outlines each agency's role and how coordination occurs. Municipal water suppliers that want this benefit must demonstrate that they meet the criteria above. The MOU also outlines a process for ODW and Ecology staff to determine compliance with planning documents.

### Expediting Water Rights Review for Public Health and Safety Concerns

Ecology may expedite the processing of water rights to resolve a public health and safety concern. Water systems must ask DOH to determine whether there is a public health and safety concern that meets certain criteria. If the water system meets the criteria, DOH will write a letter asking Ecology to expedite the water rights review. Ecology will then expedite the water rights review.

*(Continued on Page 18)*

# New & Revised Publications

***Pest Control (331-363).*** New! 6-page document explaining how to keep pests out, inspect for signs of infestation, remove favorable habitat and clean up.

***How to Handle Chlorine Gas Safely (331-364).*** New! 5 pages describe what chlorine is, how to detect chlorine leaks, safety tips and protective equipment, chlorine first aid, and how to change chlorine cylinders.

***Proposed Rule Changes for Group A Public Water Supplies (331-365).*** New. 2-page fact sheet describes proposed rule changes to incorporate changes related to the Municipal Water Law and adopt the Long Term 2 Enhanced Surface Water Treatment rule.

***Municipal Water Law - Proposed "Duty to Provide Service" Requirement (331-366).*** New! 2-page fact sheet describes when municipal water suppliers have a duty to provide service to all new connections within their retail service area.

***Municipal Water Law - Proposed Documentation for Expanding a Water Right's Place of Use (331-367).*** New! 2-page fact sheet describes criteria allowing a municipal water supplier to expand its water right's place of use to a service area identified in a Department of Health-approved planning or engineering document.

***Municipal Water Law - Proposed Approval Requirement for Water System Plans (331-368).*** New! 2-page fact sheet describes how the rule will ensure a water system's governing body, customers, and other interested parties understand how water will be provided in the future.

***Long Term 2 Enhanced Surface Water Treatment Rule (331-369).*** New! 2-page fact sheet on Department of Health's proposal to adopt the federal Long Term 2 Enhanced Surface Water Treatment rule.

***Getting Started: Water Use Efficiency Guidebook (331-375).*** New! 112 pages explain how the rule affects water systems. It includes an appendix full of examples, worksheets and an annual reporting form to help systems comply.

***Emergency drinking water sources (331-317).*** Revised. 4 pages outlining the requirements for using and maintaining emergency drinking water sources.

***Public notification helps protect public health (331-239).*** Revised. 2-page fact sheet describing the requirement that water systems notify their customers when they have a situation that poses a risk to public health.

***Responding to a threat against a water system (331-183).*** Revised. 2-page fact sheet with guidelines for Office of Drinking Water staff and water systems to use when they suspect vandalism or terrorism.

***Backflow prevention assemblies approved for installation in Washington state (2007) (331-137).*** Not available online. Revised. Identifies the makes and models of DOH-approved backflow assemblies. It is based on the Approved Backflow Assemblies List published by the University of Southern California (USC) Foundation for Cross-Connection Control and Hydraulic Research.

For copies of Office of Drinking Water publications, call (800) 521-0323 or visit the Web site at http://www4.doh.wa.gov/dw/publications/publications.cfm

Use our Listserv to get e-mail copies of new and revised publications. Sign up at http://listserv.wa.gov/cgi-bin/wa?SUBED1=wa-drinkingwaterpub&A=1

## *Ecology memorandum...* *(Continued from Page 17)*

The MOU is online at http://www.doh.wa.gov/ehp/dw/municipal_water/mwl_outreach.htm

### For more information,

Please contact your ODW regional office:

Eastern Region (509) 456-3115

Northwest Region (253) 395-6750

Southwest Region (360) 236-3030

# Drinking Water Seminars

"Thinking Ahead: Do it Now!" is the theme for this fall's Washington State Drinking Water Seminars. Dates and locations for 2007 are:

October 29, Mirabeau Park, Spokane Valley

October 30, Red Lion, Pasco

November 6, CottonTree Inn, Mt. Vernon

November 8, Red Lion, Olympia

You can check in from 8 to 8:30 a.m. The seminars begin at 8:30 a.m. and end at 4:30 p.m. Lunch is provided.

The general morning session will provide you with up-to-the-minute information to help you do your job to provide safe and reliable drinking water. We will talk about what's ahead for the Office of Drinking Water and share some success stories. There will also be presentations about the upcoming ground water rule and information on how you can increase customer confidence in tap water.

In the afternoon, we will provide three separate tracks. Tracks 1 and 2 both have three one-hour presentations. Participants have the flexibility to attend either track, depending on their interests. Track 3 will be a three-hour training designed for systems with 1,000 or more connections to learn more about the requirements of the new Water Use Efficiency Rule.

## *Track 1 - Small Systems*

1. Planning: Start now!
2. You are NOT selling "water."
3. Water use efficiency requirements for small systems. *This is a quick overview. A more comprehensive class is available through Evergreen Rural Water of Washington.* *(See the training calendar on page 10.)*

## *Track 2 - Large and Small Systems*

1. Complying with the Stage 2 disinfection byproducts rule
2. Sanitary surveys
3. Compliance expectations

## *Track 3 – 1,000 or More Connections Water use efficiency requirements*

This will be the first opportunity for larger systems (1,000 or more connections) to receive training on the water use efficiency requirements, and get a copy of ***Getting Started: Water Use Efficiency Guidebook (331-375)***. The guidebook explains how the rule affects water systems, and how business practices will change based on the requirement to involve the public in the decision-making process. It also includes an appendix full of examples, worksheets, and an annual reporting form to help systems comply.

### Continuing Education Units

Drinking Water Seminars meet Washington State Department of Health's relevancy criteria for water works operator professional growth and are pending approval for 0.6 CEU. Participants can receive 0.3 CEU for half-day attendance. Track 3 participants must attend the full three-hour training to receive 0.3 CEU credits.

### Registration

You should receive a training announcement in the mail this month that includes a registration form. You can also download the announcement from our Web site, register online or pay with a credit card at http://www.doh.wa.gov/ehp/dw/

If you have questions about registration, call toll-free (866) 417-7776 or e-mail drinkingwater@covad.net A reduced registration fee of $40 is possible thanks to funding from the U.S. Environmental Protection Agency.

### For More Information

If you need more information about the 2007 Drinking Water Seminars, please call the Office of Drinking Water's Training and Outreach Section at (360) 236-3167 or e-mail donna.lynch@doh.wa.gov


## In This Issue

The following people contributed to the production of this issue of *the Water Tap*: Stephen Baker, Cheryl Bergener, Bill Cole, Carolyn Cox, Denise Clifford, Mike Dexel, Leslie Gates, Rick Green, Jim Harksen, Gael Kantz, Donna Lynch, Mike Means, Ethan Moseng, Dick Pedlar, Sam Perry, Theresa Phillips, Dan Sander, Rich Sarver, Judy Sides, Paula Smith, Amy Swecker, Deana Taylor, Gene Taylor, Linda Waring (editor), and Ronni Woolrich.

The Department of Health Office of Drinking Water publishes Water Tap quarterly to provide information to water system owners, water works operators and others interested in drinking water.

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