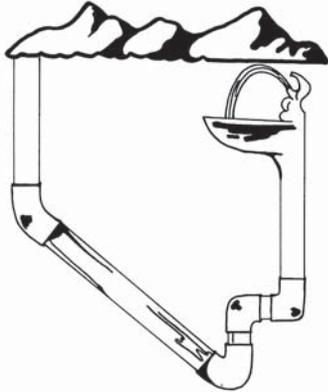


Water Lines



Water Lines is the resource newsletter and calendar of the Nevada Drinking Water and Wastewater Training Coalition.

Volume 19 Winter 2005 Issue

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New Running Article...

Featured Operator

Water Lines is funded by
the Nevada Division of
Environmental Protection

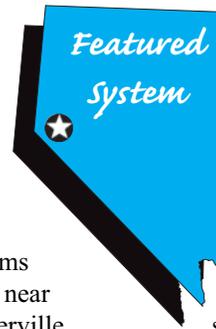
Editor, Brent Farr, P.E.

Editor, and Production, Joe Beard Jr.

Featured System: Douglas County Utilities

By Bob Foerster, Nevada Rural Water Association

From sub-alpine terrain at Lake Tahoe to the Carson Valley floor and surrounding foothills, Douglas County Utilities now operates twelve water/wastewater systems. Lead by Operations Superintendent Jerry Walker, a staff of eleven covers the systems from a central office located near the airport. Minden, Gardnerville, Indian Hills, Gardnerville Ranchos, and the Washoe Tribe of Nevada and California-Dresslerville each have their own water and/



systems and new developments. Although the County master plan includes regionalization of water/wastewater infrastructure, the approach has been to wait until a system requests aid. As adjacent or nearby systems become County-run, consolidation has been achieved by building interconnections. Then, cost-saving measures, such as common supply wells, have been developed. Mutual assistance agreements have been put in place, or are being developed with systems serving the main population centers. For example, tie-ins with pressure reducing valves and metering are in place to provide water in case of emergency needs. These good neighbor efforts are mutually beneficial. While fire is always a threat, the area served by Douglas County Utilities is bordered by and crossed by faults and there is the potential for a major earthquake.



West Valley facilities near Genoa.

or wastewater systems. There is a regional wastewater system in the Lake Tahoe area and another serving the valley population centers. Growth in outlying areas and a need for viable infrastructure systems have driven the need for management of smaller utilities at the County level.

Over the years, the County has taken on responsibility for water and wastewater systems as requested by General Improvement Districts, small neighborhood

Another sort of consolidation, one of the first County-wide efforts, is taking place with the SCADA system. There are only two unlinked systems serving County water/wastewater systems in the Lake Tahoe area and the Carson Valley. In the near future, these will be included in a County-wide wireless backbone. This will enable a central dispatcher to directly receive information and direct law enforcement to respond to tampering alarms. The engineering design process will be enhanced by having access to system behavior data in real time.

Within the dozen systems, wastewater infrastructure ranges from individual septic

(Continued on page 2)

Featured Operator: Darrin Price of SVGID

By Crystal Montecinos, Tigren Inc.

What does it take to make the journey from Nebraska farm boy to Public Works Director of Sun Valley GID? It takes two things, an appetite for learning and a competitive spirit. Darrin R. Price certainly has both of those qualities.

Darrin was born in California but spent most of his defining years in Nebraska. Like many small towns in Nevada, the characteristics of his hometown were

community service, hard work, and a respect for nature and family. Darrin has carried on that lifestyle throughout his career and with his own family.

Darrin began his career in the water industry in 1987 before operator certification was required. His experience with farm equipment such as backhoes, balers and combines landed him an entry level job

(Continued on page 3)

Featured System: Douglas County Utilities *(Continued from page 1)*

installations to centralized treatment using technologies from biotowers to ponds. At China Springs, a pond system is in place. The North County Plant, located at the north end of the Carson Valley and serving customers as far away as Genoa, employs biotower technology. Due to nearly flat terrain, force mains are in place to move wastewater toward the plant. Both of the centralized treatment systems are now run by a contract operations and maintenance firm. The long term goal is to develop operations and maintenance capacity in-house. This was ensured by including a training component in the contract.

Water treatment facilities also encompass a wide range of technologies. The Cave Rock/Skyland facility treats Lake Tahoe water by membrane filtration. Here, Memcor brand filters are followed by disinfection. Down the road at Zephyr Cove Utilities (ZCUD), lake water is treated with ozone. Following ozone contact, remaining ozone is destroyed by injecting the reducing agent calcium thiosulfate. These processes are followed by sodium hypochlorite addition to maintain a disinfectant residual in the distribution system. In order to remain in compliance with filtration avoidance regulations, Douglas County Utilities has joined with other Lake Tahoe water users in the Nevada Tahoe Water Suppliers Association (NTWSA). The group works to ensure compliance with watershed control programs in a cooperative watershed management plan. In addition to the Lake Tahoe surface water treatment plants,

Douglas County Utilities has a facility for removal of iron and manganese from well water at China Springs. Corrosion control is needed for most of the West Valley system supplies, as the water is supersaturated with carbon dioxide, resulting in a low pH.

In the future, after exemptions expire, arsenic treatment will be needed for the groundwater source at the East Valley system. Currently, an EPA grant-funded technology study is being initiated for in-situ treatment. In this approach, arsenic is adsorbed to iron on grains in the aquifer. Air injection and possibly hydrogen peroxide are used to oxidize the iron and arsenic. In overseas projects, aquifer impacts have been in the range of only two percent of voids filled. Compared to above ground treatment, anticipated costs are low in terms of capital, operation and maintenance, and waste removal.

The small staff is organized into groups having responsibility for specific sites, such as the West Valley, East Valley, North Valley or Lake system. On-call duty rotates weekly. Together, the systems have over 6,700 service connections and ninety installations, from tanks to booster stations to filtration plants and lift stations.

Customer metering is being implemented for all customers, as this was not a policy for some of the systems the County was

asked to run. As consolidation of small systems is accomplished, user rates are likely to eventually migrate from a system-specific to a county-wide approach.

With the variety of systems in place, staff is encouraged to have both Distribution and Treatment certifications. The water treatment plants require Grade 2, and four of seven staff holding certificates meet this requirement, one having earned a T-4. All seven have at least Distribution Operator Grade 1 certifications, with two having obtained D-3. There is one Wastewater Operator-In-Training. An electrician/instrument technician and a maintenance staff of two fill out the field crew. Ronnie Leeper completes the team and keeps the office running smoothly.

Some pipeline replacement projects have been done in-house, with five hundred feet of line replaced in 2004 and over one thousand feet in the summer of 2005. The capital improvement needs list for all systems now stands at approximately fourteen million dollars. With the challenges of terrain, geographical area, aging infrastructure, growth and a wide variety of wastewater and water systems to operate and maintain, this group is constantly on the move!



Safety Zone: Traffic Control In Work Zones

By Stevan Palmer, Rural Community Assistance Corp.

Every utility must occasionally perform work on or under public roadways. Most water mains and valves are located beneath streets and highways, so traffic control must be provided when repairing or installing these distribution system components. Proper traffic control helps assure the safety of both the utility operator and the public.

A successful traffic control program needs to meet three basic requirements. It must provide pedestrians and motorists advance warning, make the work area visible and protected, and guide traffic around the work area. These goals should be accomplished while inhibiting traffic as little as possible. Only persons who are trained in safe traffic control practices should supervise the selection, placement and maintenance of traffic control devices.

“Guidelines for Traffic Control in Work Zones” is highly recommended for any utility operator who wants to understand the principles of a traffic control program. The handy pocket guide summarizes and supplements the national standard for traffic control devices (Part VI of the Manual on Uniform Traffic Control Devices (MUTCD), adopted by the Nevada State Legislature under Statute 484.781). The guidebook provides valuable information on the types of traffic control devices and signs to use, where they should be placed, and other important considerations for traffic control on a specific roadway project. These are guidelines only, and are not intended as substitutes for engineering judgment. “Guidelines for Traffic Control in Work Zones” is available from the University of Nevada Reno Transportation Technology Center, College of Engineering / Room 257 / Reno, NV 89557 (775) 784-1433.

The Spigot

Q & A

Q.1. What items should be considered before selecting a location to construct a water supply intake on a river or stream?

- a. The stream bottom and degree of scour
- b. Design of the intake
- c. Possible flooding, silting, and ice conditions
- d. All of the above

Q.2. What four types of filtration can be used to meet the requirements of the Surface Water Treatment Rule?

- a. Conventional, Direct, Slow sand, Diatomaceous earth
- b. Conventional, R.O., Slow sand, Diatomaceous earth
- c. Conventional, Direct, Activated Carbon, Diatomaceous earth
- d. Conventional, Direct, Slow sand, Gravity feed process

Q.3. The difference between the chlorine added and residual chlorine is called the

- a. Chlorine dosage
- b. Chlorine demand
- c. Chloramine
- d. Free available chlorine

Q.4. Who is responsible for safety?

- a. Me
- b. My Boss
- c. Everyone
- d. Laborers

Q.5. An area with limited ventilation and/or restricted entrance is called a

- a. Restricted Area
- b. Confined Space
- c. Prohibited Zone
- d. Unauthorized Personnel

Crystel Montecinos, Consultant, Tigren Inc., prepares The Spigot.

**Answers to Spigot
1.A; 2.A; 3.B; 4.C; 5.B**

Featured Operator: Darrin Price *(Continued from Page 1)*

at the Sun Valley General Improvement District just North of Reno, NV. Just two years later Darrin became one of the first operators in Nevada to become certified. He and his co-workers had traveled to Carson City in the evenings twice a week to take classes in order to receive training. This was just the beginning of Darrin's quest for education.

As a self-described "life-time student," Darrin has been taking training or classes almost continually for two decades. His quest is to gain knowledge and experience, as opposed to folks who possess one or the other. Darrin is currently working on finishing his Bachelors Degree in Business and a Degree in Engineering at the University of Nevada in Reno. He has an impressive list of certifications that include: Distribution IV Water System Operator from the State of Nevada, Water Conservation Practitioner, Cross-Connection Specialist and Backflow Assembly Tester certifications from the CA-NV AWWA. Darrin's competitive edge is showing, if he can become certified – he will.

When asked, Darrin says that his greatest asset is not in knowing the answer to every question but in having the knowledge and a large network so that he can find the answers. Part of his success as a leader is that he always makes himself available to his operators. He has six operators on his crew who know that they can come to him with questions or concerns at any time.

As Chairman of the State Operator Certification Board, he and other Board members have worked hard to help change the State regulations so that they reflect current technologies and updated operator requirements. This important work helps keep Nevada in line with Federal guidelines and other States' requirements.

Darrin is married and has four children; three girls and one boy. Their ages range from a University student to grade school age; and not surprisingly, they keep Darrin busy with all manner of sports and school activities.

In spite of his busy schedule, Darrin still finds time to help UNR and local agencies

with Operator Training. If you have seen him teaching "Distribution Basics" via videoconference in recent months, you will agree that he is a natural teacher and leader. He says that his experience with high school sports taught him more than competition. It also taught him how to be a valuable member of a team and when to step up and be a leader. Leadership and teamwork are foremost in Darrin's management style.

Some of the challenges of running a water system may not be the most obvious ones. Darrin has found himself in front of television crews on more than one occasion. Representing a water district fairly and accurately takes skill and composure. Darrin has explained the circumstances and the District's actions to protect public health during such incidences as teenagers swimming in a storage tank, main transmission line breaks and an episode when a pig farmer had connected his pens to a waste connection. Learning to give interviews is just another challenge that Darrin takes head-on.

When asked about his favorite part of the job, he replies in character, "Learning new things, meeting people and establishing friendships."

There will always be new things to discover in the water industry. Technology is evolving everyday, and communities grow and face new challenges. Whether we are journeying from the country to the city, from Distribution or Treatment Grade I to Grade IV, or from laborer to management, we should all follow Darrin's advice to "always keep learning."



Meeting the Requirements for New Grade III and IV Operators

By Mark Walker, UNR

The requirements for post-secondary course work for new Grade III and IV operators have caused some concern. The course work includes 2-4 college level or equivalent classes. Some operators worry about how they will find the time to be in a classroom for several semesters to meet this requirement. Fortunately, many options exist to meet these requirements and some do not require being in a classroom at all.

Recent changes to regulations NAC 445A.617 through 445A.652 require that new grades III and IV treatment and distribution operators complete post secondary education courses. For a summary of the changes, see the Water Lines special insert from Summer, 2005 (New Post Secondary Education Requirements <http://www.rcac.org/pubs/WL/documents/waterlinesinsertsummer05.pdf>).

The changes apply only to new operators, not those renewing their certification. Post secondary courses are defined as “college level course(s), at least 36 hours in length... related to the drinking water profession.” New grade III operators must complete two and new grade IV operators must complete four post secondary courses. College courses in mathematics, biology and chemistry can be used to meet these requirements.

Operators who need to take classes to meet the requirements have many options. First, the Nevada System of Higher Education has five community colleges and two universities (see <http://system.nevada.edu/Institutio/index.htm> for information about where these are located and how to contact them). These institutions offer basic mathematics and science courses on campus. In fact, Truckee Meadows Community College offers an Associate degree in Environmental Science and the Community College of Southern Nevada offers an Associate degree in water and wastewater treatment.

The option of getting an Associate’s degree may not be practical for everyone trying to meet the new requirements. In many cases, new operators will need classes, not an entire program. Fortunately, operators have options to take individual classes instead of enrolling in full programs. Sources of courses that meet the requirements include:

- Regular semester college and university courses
- Classes offered by organizations accredited by the International Association of Continuing Education Training (IACET)
- Water Program correspondence courses from California State University <http://www.owp.csus.edu/drinkingwater.htm>
- Some CA-NV AWWA Water College Courses

Operators can also meet the requirements by taking classes online. Truckee Meadows Community College offers four online classes that Steve Brockway (Bureau of Safe Drinking Water, NDEP) approved to meet the requirements. These are General Biology (BIO 100), Humans and the Environment (ENV 100), Fundamentals of College Math (MATH121) and General Physics (PHYS 151). Because Truckee Meadows Community College offers these online, operators can take them as their schedule permits. For further information about these classes, contact Michael Rainey, Dean of Workforce Development and Continuing Education, Truckee Meadows Community College (775-824-8611, MRainey@tmcc.edu).

Many institutions offer online courses that could meet the requirements. Use a web search engine (such as www.google.com) and an appropriate search phrase (such as “online course water treatment”) to find options. The table below has results of such a search. These courses vary in price, including requirements for text books and any associated costs. Before signing up for a course, check with Steve Brockway, Bureau of Safe Drinking Water to be sure that the course is approved. Steve’s contact information is:

Steve Brockway,
Nevada Division of Environmental Protection,
Bureau of Safe Drinking Water, 901 South Stewart Street, Carson City, NV 89701
775/687-9527 (office telephone), sbrockway@ndep.nv.gov

Web address	Institution
http://continuinged.uml.edu/certificates/water.cfm	University of Mass, Lowell, This site has a course listing for a degree program
http://www.et-online.org/	St. Louis University, School of Public Health, offers various courses for water and wastewater
http://water.me.vccs.edu/	Mountain Empire Community College, Stone Gap, Virginia – offers an Associate Degree program in water and wastewater plant operation
http://www.owp.csus.edu/courses.php	California State University at Sacramento – offers online and correspondence courses for water and wastewater treatment plant operators
http://www.tacnet.info/getresultsall.asp?mnuCategory=training	Web site for the USEPA technical assistance center network – provides links to short courses and other resources
http://water.montana.edu/training/default.htm	The Montana Water Center, one of eight USEPA-funded technical assistance centers for small public water systems
http://awwa.advanceonline.com/catalog.cfm	The American Water Works Association’s Online Institute

Changes to Operator Certification Regulations

By Phil Walsack, Farr West Engineering

The Advisory Board to the State Board of Health on Certification of Operators of Public Water Systems (Advisory Board) held a meeting in October 2005. There is a major change in the works for the Advisory Board. It no longer provides advice to the State Board of Health. Instead, it reports to the State Environmental Commission (SEC). This change is a result of the partial transfer of the Bureau of Health Protection Services to the Nevada Division of Environmental Protection (NDEP). NDEP created a new bureau for this program called the Bureau of Safe Drinking Water (BSDW).

New regulations created by NDEP are reviewed and approved by the SEC. At the October meeting, the new drinking water treatment and distribution operator certification regulations were unveiled. These regulations are contained in the Nevada Administrative Code 445A.617 through 445A.652. Over three years ago, regulators asked the Advisory Board to assist them in revising the regulations governing the certification of public water system operators. The Advisory Board created a seven-member Working Group to address the desired changes. It is very unusual for the people being regulated (the public water systems) to help revise regulations governing their operation. But in 2002, the regulatory agency felt that opposition to new operator certification regulations would be considerable without consensus from the water systems.

Numerous public hearings were held over the three-year period. Public water systems from all over the State participated in the hearing, providing valuable insight and advice to the Advisory Board and regulatory agencies. After a long process, the Working Group, Advisory Board, BSDW, and interested water utilities reached consensus. The regulations were approved by the SEC with only a few minor questions and comments. The SEC praised these regulations as “well-written.” The operator regulations made history as they received approval by two oversight commissions; first, by the State Board of Health (as temporary regulations), and second by the SEC (as final regulations).

The last issue of Water Lines addressed the regulatory changes for operator certification regarding required working experience, post-secondary education, and examinations. Another change mandated by the new regulations is in the classification of water distribution systems. In the past, water distribution system operations were regulated solely by the number of people served by the water system. The new regulations balance the number of people served with the water system’s complexity by using a point system. Complexity is measured by assessing the major structures in the distribution system. Systems with two wells and a storage tank will receive fewer points than a distribution system that has several pumps, pressure stations, and storage tanks.

There will be about 40 water systems whose distribution system classification will be affected by the new regulations. About half of the affected water systems will increase by one grade level (i.e., increase from a Grade 1 to a Grade 2) and half will be ranked with a lower grade. This ranking is important because it determines what level of certification an operator must possess to be in “responsible charge.”

The definition of responsible charge has not been altered between the old regulations and the newly-adopted regulations. A person in responsible charge is actively engaged in the on-site supervision and performance of operational activities within the treatment plant or distribution system. This person also makes decisions regarding process control and system integrity about water quality or quantity that can affect public health. It is important to note that a person who is in responsible charge of both a treatment plant and the distribution system must be dual-certified.

The new regulations describe, in detail, what is meant by “decisions affecting water quality and quantity” within the distribution system. There are eight examples of these decisions published in the regulations. Because they are vital to so many distribution operators all eight are listed below.

- (1) Install, tap, re-line, disinfect, test, and connect water mains and appurtenances;
- (2) Shutdown, repair, disinfect and test broken water mains;
- (3) Oversee the flushing, cleaning, and pigging of existing water mains;
- (4) Pull, reset, rehabilitate, disinfect and test water wells;
- (5) Stand-by emergency response duties for after hours distribution system operational emergencies;
- (6) Drain, clean, disinfect and maintain distribution reservoirs;
- (7) Operate pumps, flow, pressure control and storage facilities manually or by system control and data acquisition (SCADA) system;
- (8) Maintain and/or adjust system flow and pressure requirements, control flows to meet customer demands, including, fire flow demands and minimum pressure requirements.

(Continued on page 6)

Success of the NTWSA

By Cameron McKay

The Nevada Tahoe Water Suppliers Association is now becoming the leader in source water protection within the Lake Tahoe basin. NTWSA was officially formed in 2003 and traces its origins back to the late 1980's when the surface water agencies around the lake began working together to try to understand the Surface Water Treatment Rule initiated by the 1986 Amendments to the Safe Drinking Water Act. NTWSA consists of six water suppliers: Edgewood Water Company, Kingsbury General Improvement District (KGID), Round Hill General Improvement District (RHGID), Douglas County Utilities, and Glenbrook Water Company, all in Douglas County, and Incline Village General Improvement District (IVGID) in Washoe County.

Source water protection regulations are more stringent than regulations set by the Tahoe Regional Planning Agency or other regulatory agencies that look more towards the clarity of the lake than the use of the lake as a drinking water source. As a group, NTWSA has created a watershed control plan with common standards and objectives for all members; while at the same time acknowledging that each purveyor's service area may have its own specific challenges.

Potential sources of pollution are also addressed. Stormwater runoff is a concern to the water purveyors because it can carry pollutants, nutrients, and sediment directly into the lake. Therefore, these water purveyors have either initiated or completed a series of Water Quality Improvement Projects designed to increase the quality of the stormwater that reaches the lake, or to force the water to infiltrate into the lake. Because Lake Tahoe retains such a large amount of water with a limited watershed, it takes nearly 700 years for water to enter into, pass through and exit the lake. A potential source of nutrients to any water supply is wastewater. In the Tahoe Basin, all wastewater, untreated (on the West and North Shore), or treated, (on the East and South Shore), is exported out of the basin.

Current programs used by NTWSA include: Data Management, the consolidation of a database on all water purveyor's source water; Education and Outreach, raising the awareness of both the local residents and visitors of the different uses of Lake Tahoe; Mapping, Water Quality Monitoring, monitoring the streams that supply Lake Tahoe; Planning and Regulatory Activism, addressing the needs of the water purveyors to regulatory agencies and involvement in any planning updates that may affect water quality; and Administration, providing annual reports and developing operating and financial procedures.

By managing the source water as a group instead of individually, the water purveyors are able to save considerable time and money and still meet the requirements set out by the Safe Drinking Water Act. It also allows for the protection of Lake Tahoe while retaining its scenic beauty and recreational opportunities.

Operator Certification Changes

(Continued from page 5)

As an outcome of the public hearings regarding these regulations, concerned utilities have requested that NDEP review the **wastewater** operator certification regulations. Utilities feel that there may be an opportunity to improve the wastewater operator regulations to match improvements made in the water industry's regulations.

Many operators already carry certifications for potable water and wastewater. With utilities pursuing more efficient operations, operators may be required to become more versatile and work in many water-related areas, including: water treatment, water distribution, water conservation, backflow and cross connection control, wastewater collection, wastewater treatment and reclaimed water. Nevada's certified operators may one day manage all of their customers' "water" needs. Ultimately, utility operators will have to hold several certifications to be more valuable to their employers and the communities they serve.

New Nevada Operators certified



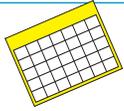
These operators passed water certification exams for distribution and treatment grades 1, 2, 3 and 4. Congratulations to all !

Distribution grades 1, 2 and 3

Allen, Raymond, D-1; Biskobing, Bruce, D-1; Boyce, Mark, D-1; Brinkoetter, Keith, D-1; Byrom, Jack, D-1; Childs, Judy, D-1; Del Carlo, Vincent, D-1; Ducker, Matthew, D-1; Elliott, Brian, D-1; Giese, Jeff, D-1; Gurnee, Jim, D-1; Haines, Gary, D-1; Hansen, Ron, D-1; Johnson, David, D-1; Kirchhoff, Randy, D-1; Klug, Cameron, D-1; Morris, Glen, D-1; Mutchler III, Paul, D-1; Norris, Stephen, D-1; Rippe, Steve, D-1; Santillan, Felix, D-1; Strong, Barry, D-1; Todacheeny, Jimmy, D-1; Vanassche, Wayne, D-1; Wainscott, James, D-1; Watts, Kyle, D-1; Yasso, Keola, D-1; Ahrens, Lee, D-2; Anderson, Mark, D-2; Arenas, Ruben, D-2; Beecher, David, D-2; Bergstrom, Dennis, D-2; Betty, Richard, D-2; Blue, Jeffery, D-2; Brower, Matthew, D-2; Budesza, Richard, D-2; Cadwell, James, D-2; Chambers, Chad, D-2; Cole, Erin, D-2; Delisle, Maurice, D-2; Erickson, Chris, D-2; Fonger, Evan, D-2; Krzysiak, Greg, D-2; Laughter, H. Grant, D-2; Levy, Mark, D-2; Martin, Larry, D-2; McMahan, Michael, D-2; Peralta, Greg, D-2; Quigley, Patrick, D-2; Sedberry, Larry, D-2; Stringam, Jerome, D-2; Van Doren, Scott, D-2; Ware, Mark, D-2; Westwood, Jeff, D-2; Wong, Dave, D-2; Rodriguez, Ramon, D-3; Ross, James, D-3

Treatment grades 1, 2, 3 and 4

Billante, Carey T-1; Chah, Robert, T-1; Cole, Erin, T-1; Elsea, Joe, T-1; Forston, William, T-1; Holt, Timothy, T-1; Laughter, H. Grant, T-1; Lowndes, Ronald, T-1; Mothershead, Eric, T-1; Onorato, Robert, T-1; Ashby, James, T-2; Erickson, Chris, T-2; Faught, Robert, T-2; Fridy, Michael, T-2; Reed Jr., Brett, T-2; Pickle, Todd, T-3; Hu, Frank, T-4; Johnson, David, T-4



Training Calendar for 2006

2006

December 2005- Northern Nevada- Farr West Training. Two day workshop covering Water Conservation Practitioner training. Please contact Brent Farr if interested, at 775/851-4788.

January- Southern Nevada- Farr West Training. Two day workshop covering Water Conservation Practitioner training. Please contact Brent Farr if interested, at 775/851-4788.

January 17- Mesquite- NvRWA Training. Flowmeters. Info:775/841-4222.

January 19- Laughlin- NvRWA Training. Flowmeters. Info: 775/841-4222.

January 20- Las Vegas- AWWA Education Extravaganza. Go to the AWWA website for more information, www.ca-nv-awwa.org

February- Northern Nevada- Farr West Training. 36 Hour workshop on Water Distribution Systems. Please contact Brent Farr if interested, at 775/851-4788.

February 14- Mesquite- NvRWA Training. Well Construction/Maint./Abandonment. Info: 775/841-4222. **Cancelled**

February 16- Laughlin- NvRWA Training. Well Construction/Maint./Abandonment. Info: 775/841-4222. **Cancelled**

March 10- UNR Videoconference- Confined Space Awareness. Info: Crystel Montecinos at 775/240-1396.

March 14-17- Reno- NvRWA Annual Training and Technical Conference at the Reno Hilton. Scholarships available, call 841-4222.

March 22-24- Sparks- NWEA Annual Conference at John Ascuaga's Nugget. Go to the NWEA website for more information, nvwea.org.

April 28- UNR Videoconference- Pump Mechanics. Info: Crystel Montecinos at 775/240-1396.

May 19- UNR Videoconference- Review for Drinking Water and Wastewater Exams. Info: C. Montecinos at 775/240-1396.

June 9- UNR Videoconference- Small System Management. Info: Crystel Montecinos at 775/240-1396.

July 21- UNR Videoconference- Safety Workshop. Info: Crystel Montecinos at 775/240-1396.

August 18- UNR Videoconference- Review for Drinking Water and Wastewater Exams. Info: C. Montecinos at 775/240-1396.

This symbol designates Nevada Division of Environmental Protection pre-approved training for contact hours. Other training may be eligible for contact hours but is not yet pre-approved. Before attending any training, contact NDEP at 775/687-9527 for approval. Ten hours of approved training equals 1 CEU. A different ratio applies for safety training.

Notice:

Through NDEP-SRF, Scholarship Funds are available for qualified participants, to cover travel, lodging, and meal costs when attending the NvRWA Annual Training and Technical Conference. Call 775-841-4222 or visit nvrwa.org for more information.

Please pass along this information, especially to your neighboring small system operators who may not have been able to attend the conference in past years (and may not have received this issue of Water Lines).

<<<Check the NvRWA web site for an application>>>

<http://www.nvrwa.org>

Applications will be screened in February

Late Breaking News

Debbie Kaye Selected as AWWA Section Chair

The AWWA California/Nevada Section plays an important role representing Nevada's water affairs. This year, a Nevadan has been selected as Section Chair. Debra Kaye will serve as Section Chair from Fall 2005 to Fall 2006.

She is a registered Civil Engineer and was employed with Sierra Pacific Power Company for more than sixteen years, including service in operations, planning, and engineering.

Debra supervises all water treatment functions and water distribution operations as well as maintenance of the treatment plants and distribution production facilities for the Truckee Meadows Water Authority.

New NTC Board Members Elected

During the October 6th meeting of the NTC, elections were held to fill three seats on the NTC Board. Three members of the coalition were elected to serve on the Board for terms of two years.

Bob Foerster and Dean Adams were both elected to continue serving as Board Members. Don Allen was also elected to serve a two-year term, his first.

Congratulations to the new and returning Board Members, and thanks also for your ongoing service and commitment !

University of Nevada, Reno
Colleges of Agriculture, Biotechnology and Natural Resources & Cooperative Extension
2005 Videoconference Training Calendar: www.unce.unr.edu/swp.wkshps.htm

UNR videoconference classes for water system operators and managers are available in most communities. To request a workshop in your area, call Crystel Montecinos at 775/240-1396 or e-mail: xtelle@aol.com.

Community College of Southern Nevada
Wastewater & Water Technology Program
Info: LeAnna Risso, 702/434-6600 ext. 6418.

WWET Training in Clark County
Info: Jeff Butler 702/258-3296; see www.wwet.org for a current training calendar.

State of Nevada Water Certification Exams
All exams will be proctored on the date listed. Applications are due to the state (Steve Brockway) 45 days before exam dates. A proctor will contact examinees to schedule testing. Contact Debra Kaye at 775/834-8114 for information about 2006 exam dates.

Wastewater Certification Board Testing

Wastewater certification exams are given in quarterly.

Info: 775/465-2045 or www.nvwea.org.

Nevada Drinking Water and Wastewater Training Coalition

American Water Works Association California/Nevada Section

www.ca-nv-awwa.org

Nicole Schreuder, Education Mgr.,
909/291-2101

Indian Health Service

Dominic Wolf, 775/784-5327

Bureau of Water Pollution Control

<http://ndep.nv.gov/bwpc/bwpc01.htm>

Adele Basham, DWSRF, 775/687-9488

Michelle Stamates, AB 198 Water

Grant Program, 775/687-9331

Nevan Kane, Wellhead Protection,

775/687-9426

Nevada Rural Water Association

www.nvrwa.org

775/841-4222

Bob Foerster, Executive Director

John Allred

Curtis Duff

David Miller

Jonn Scovil

Andy Anderson

Teresa Taylor

David Willard

Public Utilities Commission of Nevada

www.puc.state.nv.us

Steve McGoff, P.E., Water Engineer

775/684-6140

Mark Clarkson, P.E., Senior

Engineering Analyst, 775/684-6132

Bureau of Safe Drinking Water

<http://ndep.nv.gov/bsdw/index.htm>

775/687-9520

Jim Balderson, SWAP, 687-9517

Steve Brockway, CEU approval, 687-9527

Dana Pennington, 687-9516

Bert Bellows, arsenic, 687-9525

Nevada Water Environment Association

www.nvwea.org

775/465-2045

Starlin Jones, 775/861-4104

Eric Leveque, 702/792-3711

Rural Community Assistance Corporation

www.rcac.org

775/323-8882

John Dailey, Regional Manager

Stevan Palmer

U.S. Environmental Protection Agency, Region 9

www.epa.gov/region09

Marvin Young, 415/972-3561

USDA Rural Development

www.usda.gov/rus/water/index.htm

Cheryl Couch, 775/887-1222, ext. 22

Kay Vernatter, 702/262-9047 ext. 113

University of Nevada, Reno

Dept. of Civil Engineering

Dean Adams, 775/784-1474

UNR Natural Resources and Environmental Science and Cooperative Extension

www.unce.unr.edu/swp

Crystel Montecinos, 775/240-1396

Mark Walker, 775/784-1938

Water/Wastewater Education and Training Consortium of Southern Nevada — WWET

www.wwet.org

Jeff Butler, 702/258-3296

Farr West Engineering

Brent Farr, P.E. 775/851-4788

NDWWTC Board Members

2005 - 2006

Bob Foerster, Chair
775/841-4222
nvrwa@pyramid.net

Dean Adams
775/784-1474
vdadams@unr.nevada.edu

Cameron McKay
775/588-2571
rhgid@aol.com

Don Allen
775/577-2223
Silver Springs MWC

Mark Walker
775/784-1938
mwalker@unr.edu

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Farr West Engineering

1310 Dalwood Court

Reno, NV 89521

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