



ARKANSAS DRINKING WATER UPDATE

Revised Total Coliform Update

Lance Jones, P.E., Chief Engineer

The Revised Total Coliform Rule (RTCR) published last year becomes effective for all public water systems on April 1, 2016. The Engineering Section has been and continues to work towards implementing the Rule and providing training and updates to water systems.

The Spring 2013 edition of the Arkansas Drinking Water Update included an article summarizing the main elements of the RTCR. In addition, training sessions have been presented at the 2013 and 2014 AWW&WEA conference and is planned for at the 2014 ARWA conference. Additional and other training efforts will continue through 2016.

The Engineering Section participated in training sessions provided by USEPA from Fall 2013 through Winter 2014 covering the details of the requirements and guidance on implementing the Rule. Additional training is being provided by the Region 6 EPA office to aid in our Primacy application process.

The major change in the regulation from the current Total Coliform Rule (TCR) is the requirement to conduct assessments of the water system to identify sanitary defects when Total Coliform is detected in multiple distribution samples. The TCR issues a Maximum Contaminant Level (MCL) violation, the RTCR will require the assessment and corrective action(s). A Treatment Technique (TT) violation will be issued only if the assessment or corrective action(s) are not completed. Acute MCL violations will continue to be issued when *E-Coli* is confirmed to be present in the water system samples. In addition to the Acute MCL, the RTCR will also require an assessment and corrective action(s) be completed.

We have begun the process of developing procedures and forms for conducting the required assessments based on the USEPA guidance. In addition, we will be developing a notification and

tracking procedure to initiate and document the assessments and corrective action(s). Our goal is to have draft forms and procedures developed by this Fall and be finalized by end of the year. This will allow us to begin implementing the assessment procedures in parallel with the current TCR requirements to help train water systems and our staff on the new requirements during 2015 and early 2016. Compliance during this period will continue to be under the current TCR, although water systems will be encouraged to complete the assessments and any identified corrective action(s).

The monitoring requirements for the RTCR are essentially the same as under the current TCR for routine and repeat samples (samples following a total coliform positive result). However, the current requirement of collecting a minimum of 5 samples in the month following a total coliform positive sample will be removed.

Also, development of rule implementation will include an application process where the Arkansas Department of Health applies to the Environmental Protection Agency (EPA) for primacy for this rule in the state of Arkansas. The ADH will have to document that we are capable of fully implementing the rule in a manner that is fully compliant with federal requirements.

The primacy application is due to EPA in January 2015 and it's approval will allow the ADH Engineering Section to implement and enforce the Rule in Arkansas on behalf of the USEPA.

More information regarding the details of the RTCR can be found at the EPA website:

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

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Computer Based Water License Exams

Martin Nutt, Certification and Training Officer

Computer-based Arkansas Water Operator License Examinations are available utilizing Applied Measurement Professionals (AMP) Assessment Centers. This is an optional method of examination with an additional administration fee of \$64.00 per exam. This option allows exams to be scheduled with a large degree of flexibility as to day of the week (open Monday through Saturday) and time of day (9:00 AM or 1:30 PM).

To utilize AMP, contact the Water Operator Licensing Program to start the process. To schedule an exam utilizing AMP, the License Program must be in receipt of the examinee's Water Operator License application, required License and Exam fees must be paid, and the mandatory training requirements must be documented as met.

The Licensing Program will arrange for AMP to contact the examinee. AMP will provide needed information and directions to schedule the computer based exam. The AMP computer based exam administration fee of \$64.00 must be paid directly to AMP when the exam is scheduled. The time needed to complete the examination process, from a few days to several weeks, depends on several factors. Have the license application and licensing fees been processed? Are mandatory training attendance documents available? The mode of communication, internet versus US mail, all can influence the time needed significantly.

The exams are administered via computer terminals in an AMP Assessment Centers; they are not paper based. AMP provides a paper copy of the ABC exam formula sheet and scratch paper. A practice exam to become familiar with the computer process is available at the time of examination. The process is very user friendly and is suitable for non-computer users.

The computer-administered examination is graded immediately after the exam is concluded. AMP will furnish the Licensing Program with your exam results. The Licensing Program will follow-up the exam results with the appropriate documents based on the exam results.

AMP has examination centers in Fayetteville, AR; Little Rock, AR; Memphis, TN; Jackson, MS; Shreveport, LA; Tulsa, OK; Springfield, MO; and others located throughout the United States. All may be utilized. For additional site information, examination concepts, and examination procedures, see AMP's website, www.goamp.com. Under

Candidates (exam taker), click/select "Get Started". I suggest, at a minimum, you review the Arkansas handbook, view the "What To Expect" video, and review the "General Recommendations" before you "Schedule an Exam".

Annual Compliance Report Available

Jeff Stone, P.E., Director

The Engineering Section has completed the Annual Compliance Report (ACR) pertaining to calendar year 2013. As the primacy agency in Arkansas for the federal Safe Drinking Water Act (SDWA), the ACR is required to be completed and made available for each calendar year. The deadline for making this report available is July 1 of the following year. This most recent ACR is available via the Engineering Section website <http://www.healthy.arkansas.gov/programsServices/environmentalHealth/Engineering/Documents/Reports/EngReports/ACR2013.pdf> or a paper copy is available by request.

The ACR contains detailed information concerning the violations that public water systems have incurred and overall statistics concerning compliance with SDWA requirements for public water systems in the state. Highlights of the report are as follows:

Population of Arkansas	2,787,630
% of Arkansans Served by Public Water	94.1 %
Community Public Water Systems	701
Transient, Non-Community PWSs	329
Non-Transient, Non-Community PWSs	35
Monitoring Compliance	99.6 %
SDWA Water Quality Compliance	98.5 %
Overall SDWA Compliance	98.2 %

It is important to understand that overall compliance rates rise and fall incrementally as new SDWA requirements become effective and public water systems then make adjustments to maintain compliance. The overall compliance rate of 98.2% for 2013 is approximately the same as 2012 overall compliance rate of 97.1%.

If an electronic copy of the ACR is desired, please utilize the internet link provided above. If a paper copy is desired, please send a request to jeffery.stone@arkansas.gov or via regular mail to Jeff Stone, Engineering Section, Arkansas Department of Health, 4815 West Markham, Slot 37, Little Rock, AR 72205.

Drinking Water License Program Critical Water License Exam Changes

Martin Nutt, Certification and Training Officer

Exams Changes

- The Water Licensing Program switched from client-customized Association of Boards of Certification (ABC) exams to the ABC national standardized exams. The exam items, also called questions, were reduced to 100 items for all treatment and distribution exams. The very small water system exam was reduced to 50 items. The minimum exam passing score will remain at 70 percent. The exam items style and content will not change. The standardized exams use the same ABC Itembank as the previous exams. However, Arkansas regulation items were removed. Items in reference to Federal regulations and standards will remain on the exams.
- The reduction in exam items resulted in a reduction in exam session time to the ABC prescribed three hours. The time change should have minimal impact. Many examinees completed the previous 120 item exam within three hours.

Exam Schedule Changes

- The exam session schedule has significantly changed. The Program offers quarterly exam sessions. Exam sessions at the conclusion of all mandatory treatment and distribution courses have stopped. See table titled *WATER OPERATOR LICENSE EXAMINATIONS SCHEDULE* in this newsletter for exam session information.

Examinee Must Reserve/Register For Exam

- Examinees **must** formally register/schedule their exam at least 45 days prior to the desired exam session date. To register on the internet go to www.healthy.arkansas.gov/eng and click on *Operator Certification*, then select *Register- Water License Exam*. To register by e-mail provide name, license exam desired, exam session site, and exam date in an email addressed to ADH.Water.Licensing@arkansas.gov. You may register by phone with the Water Licensing Program at (501) 661-2623.
- To register for an exam, in addition to the actual registration process, the examinee must have the required license application submitted, paid required exam fee, and be able to document the ability to meet the mandatory training attendance requirements (when will classes not attended be attended) by the time of examination. Failure to attend the registered exam session may result in the forfeiture of the exam fee.

Exam Preparation Changes

- The ABC standardized exams will utilize ABC's *Needs To Know Criteria* instead of the ADH provided study guide and will utilize *ABC Formula/Conversion Table*. Please visit ABC's internet site at: http://www.abccert.org/testing_services/info_examinees.asp to download or print these two items.
- The ABC Standardized exams utilize the same reference manuals as previous exams. They require the same mandatory courses. The exam questions are similar in format and difficulty to previous license exam questions.

The above changes are necessary to meet ABC exam policy changes, ABC exam contract changes, or to address Engineering Section concerns over staff time and travel expenses dedicated to proctoring the large number of previously offered exam sessions.

Bradley Scheffler Appointed to Water License Committee

On April 24, 2014, the State Board of Health appointed Mr. Bradley Scheffler, Water/Wastewater Director, City of Piggott, Piggott, Arkansas, to the Arkansas Drinking Water Advisory and Operator Licensing Committee. His strong drinking water background will allow him to be a valued member of the Committee.

Nominations were requested from the: Arkansas Water and Wastewater Managers Association, Arkansas Rural Water Association, Arkansas Water Works and Water Environment Association, and the Arkansas Environmental Training Academy Advisory Board. Mr. Lance McAvoy, Environmental Manager, Fort Smith Utility, Fort Smith, Arkansas was also nominated.

The Committee at its April 2, 2014 meeting thanked Susan Merideth, Jonesboro City Water and Light, for her six years of loyal service to the Committee. She served as the Committee Chair during her last year of service. She was presented a thank-you plaque at the Arkansas Water Works and Water Environment Association's Annual Business Meeting and Opening Session April 27, 2014.

The Committee advises the Department of Health and its Engineering Section on matters affecting Public Water Systems and the administration of the Water Operator Licensing Program.

AVOID A DAY WITHOUT WATER:

EPA's Community-Based Water Resiliency Tool

Darcia Routh, P.G., Source Water Protection Program

Is your community prepared for a day without water? Drinking water and wastewater utilities provide a valuable service in our communities. Many communities are not prepared for an interruption in these services and are unaware of the need to prepare for alternate methods to begin the process of building resiliency.

US EPA and the Department of Homeland Security want the public water utility sector to avoid a disruption in drinking water services. To that end, EPA has developed a new online tool to promote water security at the community public water system level.

The Community-Based Water Resiliency website describes this innovative approach to water security this way:

“Water is essential to life, human health, and the economy. Communities rely on drinking water and wastewater to provide vital services. Hurricanes, tornadoes, aging infrastructure and intentional contamination are among the many challenges water and wastewater utilities face in an effort to operate uninterrupted. Resilient communities are better prepared to rapidly recover from water service interruptions because they have identified critical interdependencies and focused on building relationships between the water utilities and the communities they serve.”

EPA's Community-Based Water Resiliency (CBWR) initiative aims to:

1. Increase overall community preparedness by raising awareness of water sector interdependencies and enhance integration of water sector into community emergency preparedness and response efforts; and
2. Increase preparedness and resiliency of drinking water and wastewater utilities by delivering tools and information to increase community collaboration and bolster security practices.

You can access the front page for this initiative at:

<http://water.epa.gov/infrastructure/watersecurity/communities/index.cfm>

Once you have accessed the website, you will find:

- **A Day Without Water, a 3:38 minute video introduction to the CBWR tool**
- A quick link to download the CBWR tool
- Tabs for multimedia resources, and training.
- An interactive poster on water sector interdependencies in PDF format.
- Pilot Lessons Learned and Recommendations

Pilot Lessons Learned includes discussion and resources for understanding interdependencies, response plans, emergency communications, alternative supply planning, and continuity of operations. Please take advantage of the wealth of information provided with the CBWR tool to integrate community water needs into disaster and emergency planning at the local and county level.

Fluoridation Repair Funding Available

Carol Amerine, Office of Oral Health

The Office of Oral Health, Arkansas Department of Health, would like to announce that funding is available through the office for 1) water systems who currently fluoridate and are in need of equipment repair assistance, and 2) community water systems serving less than 5,000 people (not subject to ACT 197) that need financial assistance to purchase new fluoridation equipment to begin providing fluoridated water to customers. Examples of fluoridation equipment that could be funded: pumps, scales, dry chemical feeders, appurtenances, etc. Water systems will be chosen based upon needs identified by the State Fluoridation Engineer and his team of engineers. Due to limited funding, all attempts will be made to leverage funding with potential funding sources.

For information, please contact: Carol Amerine, 501-661-2051, carol.amerine@arkansas.gov or Glenn Greenway, 501-661-2554, glenn.greenway@arkansas.gov.

Partnering Agreement Renewed Between ADH and ACEC/Arkansas

Jeff Stone, P.E., Director



On May 13, 2014, the Engineering Section of the Arkansas Department of Health and the American Council of Engineering Companies of Arkansas (ACEC/A) renewed the partnering agreement that has been in place for over 15 years. The original partnering agreement was signed on September 17, 1998. Partnering agreements are nonbinding resolutions where each party states their expectations and objectives for achieving mutually agreed upon goals. Pictured from left are Byron Hicks of McClelland Engineers, Lance Jones of the Engineering Section, ADH, and Bert Parker of Garver Engineers.

Details of this partnering agreement include;

STATEMENT OF PURPOSE: "The Engineering Section of the Arkansas Department of Health (ADH) and the American Council of Engineering Companies of Arkansas (ACEC/A) seek through this agreement to establish and continue a partnership that enhances the ability of each organization to achieve its goal, better serve the public, and improve the public's water and wastewater infrastructure."

OBJECTIVES: 1) Ensure a continuing dialog between ADH and ACEC/A; 2) Enhance professionalism and quality of work; 3) Foster a problem solving attitude.

The original partnering agreement in 1998 came at a time when the Engineering Section at the ADH was taking excessive time in conducting plan review of construction plans and specifications. Following the original partnering agreement, the Engineering Section streamlined internal procedures and focused on reducing plan review turnaround time. Every year the Engineering Section attends and makes a presentation at the ACEC/A Government Agency Forum held in the latter part of each calendar year. Also, since the original partnership agreement, communication has improved between Engineering Section staff and consulting engineers with e-mail usage commonly providing quicker plan review feedback versus conventional mail. The Engineering Section looks forward to continuing the partnership with ACEC/A.

Staff News:



Anastasia Johnson has joined the Engineering Section in a position with the administrative staff. Anastasia is a Little Rock native and previous employee of the Arkansas Department of Health. She graduated from Pulaski Technical College with an Associate's Degree in General Studies. Her plans are to continue her education at UALR this fall to work on a Bachelor's Degree in Business Administration.

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What is Public Notice?

Robin Michaels, Enforcement Officer

The Public Notice Rule is designed to provide transparency and accountability to the community that the water system serves. When a water system receives a violation, it is usually required to inform the customers of the nature of the violation and when it occurred. Violations are determined by the Engineering staff and include Maximum Contaminant Level Exceedances, failure to perform required monitoring, and/or any other deficiency that is required by federal or state rules or regulations.

When a water system receives a Notice of Violation from the state, it will receive the appropriate public notice forms that include the required language for the public notice. The forms have blank spaces that can be used to fill in the type of violation and when the violation occurred. You may reformat the public notice, but you must include the required language contained on the form.

Included with the public notice form will be a Public Notice Certification form. When completed, this form verifies that the public notice was conducted in the required manner. Simply fill in the blanks on the form and include it with a copy of the public notice you posted and mail it back to the Engineering Section in order to get credit for the public notice. Failure to send these forms back to Engineering will result in a Public Notice violation. Enforcement Action will be taken if the water system accumulates enough Public Notice violations. Public Notice violations will not be returned to compliance until the water system documents that the public notice has been completed according to the requirements.

The required method of delivery depends upon the size of your system. The simplest way to reach your customers is to mail the public notice to each customer. If you have a local daily or weekly newspaper, you should publish the public notice in the newspaper if one is available. You may also post the notice in conspicuous locations such as the water office, post office, local convenience stores, schools, daycares, and nursing homes. This assures you are reaching most of your customers.

Tier 1 violations are acute health risk related and must be provided to the public within 24 hours of receiving notice of the violation. A Tier 1 violation would be any type of acute violation such as confirmed E. coli in a water sample or any turbidity reading above 1 NTU.

Tier 2 violations must be provided to the public within 30 days of you receiving notice of the violation. Tier 2 violations include Maximum Contaminant Level Exceedances for Total Coliform, Disinfection By-Products, etc. Tier 2 also includes treatment technique

violations such as not having a qualified operator or any operational type violation.

Tier 3 violations include many monitoring violations and must be provided to the public within one year of you receiving notice of violation. The public notice may be published in your Consumer Confidence Report if within one year of receiving the violation. However, please check with me or the CCR staff to be sure you will be able to meet the time requirement for a Tier 3 violation.

If you have questions concerning public notice requirements, you can contact me at Robin.Michaels@arkansas.gov.

New Water Services & Sewage Disposal

Terry Paul, R.S.
Chief, Environmental Health Branch

A longstanding requirement contained in the Arkansas Department of Health's Rules and Regulations Pertaining to Public Water Systems concerns the requirement to obtain documentation of approval of sewage disposal and plumbing inspection prior to providing water service to a new building or residence. This requirement is found in Section X.IV. F. "Plumbing Inspection and Sewage Disposal Required" of the Regulations. The customer must provide this documentation to the water system prior to the water meter being set.

Recently, there have been cases where water systems provided customers with water service even though sewage disposal had not been approved and no documentation provided to the water system. In some of these cases, the property in question was not suitable for on-site sewage disposal and the property owner was left without the ability to obtain a sanitary sewage disposal system. This can result in significant economic loss to those who get "the cart before the horse".

Public water systems can assist their customers in keeping "the horse before the cart" by requiring customers to show proper documentation prior to providing water service. The requirement to do so is contained in the Regulations and failure to comply with the regulations will result in the water system being cited for a violation.

The Arkansas Department of Health values the positive working relationship that it has with public water systems and is appreciative of the efforts that water systems make in complying with this requirement and assisting customers in making sure they have necessary approvals. If you have any questions, please feel free to contact Terry Paul at 501-671-2171.

OEL Reporting Under Stage 2 DBP Rule

Ken Bown, P.E., Source Protection Program

The dates for compliance with the Stage 2 Disinfection By-Product (DBP) Rule and required Operational Evaluation Level (OEL) Reporting for Total Trihalomethanes (TTHM) and Halocetic Acids (HAA5) are now effective for most water systems. The table below outlines monitoring start dates by “Schedule” and the associated OEL effective date. A schedule is determined by either the system’s population or the largest system’s population in a combined distribution system.

The initial compliance dates for the Stage 2 DBP Rule requirements

Schedule	Population of the Largest System in the Combined Distribution System	Compliance Monitoring Start Date	Initial OEL Calculation Date
1	>100,000	April 1, 2012	Jan 2013
2	50,000-99,999	October 1, 2012	July 2013
3	10,000-49,999	October 1, 2013	July 2014
4	<10,000	October 1, 2013; or October 1, 2014 (If Crypto Monitoring required)	July 2014 July 2015

ADH monitors all public water systems for TTHM and HAA5 under the Stage 2 DBP Rule and prepares the DBP locational running annual average (LRAA) and OEL calculations for TTHM and HAA5 on a quarterly basis for each sample site at a water system. The LRAA provides an average for most recent 4 quarters worth of data for a sample site. The purpose of the OEL is to show which sites are likely to be out of compliance with TTHM’s or HAA5’s the next quarter. As a part of Stage 2 DBP Rule compliance monitoring, ADH calculates OELs by taking the sum of the two previous quarters’ results plus twice the current quarter’s results divided by 4 as shown in the following example:

$$\text{OEL Calculation: } \text{OEL} = \frac{(\text{current quarter result} * 2) + (1^{\text{st}} \text{ previous quarter result}) + (2^{\text{nd}} \text{ previous quarter result})}{4}$$

A summary of the OEL calculation frequency, OEL exceedance level, and OEL reporting requirements follows:

<u>OEL Calculations and Reporting</u>	<u>OEL Exceedance if:</u>	<u>Follow-up Action if OEL Exceedance</u>	<u>It is a violation if:</u>
ADH calculates TTHM and HAA5 for each sample location at a water system on a quarterly basis. However, SW Systems <500 population is 1/year & GW Systems <10,000 population is 1/year	<ul style="list-style-type: none"> • TTHM OEL >80 ug/l • HAA5 OEL >60 ug/l 	Conduct an operational evaluation and submit report to ADH within 90 days	OEL report not submitted with 90 days of receiving notification of OEL exceedance and/or OEL Report does not contain all required elements.

Water systems face many challenges including new, stricter regulations on DBPs. Surface water and a few ground water systems in Arkansas contain natural organic matter, or more specifically, total organic carbon (TOC). One of the most effective ways to control DBPs is by lowering TOCs in the treatment plant with effective coagulation and filtration. Most WTPs use chlorine for disinfection. Chlorine reacts with any remaining TOC to form DBPs in the distribution system. Higher water temperatures during summer seasons tend to result in higher DBP levels since chemical reactions happen faster at higher temperatures. Also, higher water temperatures often cause a higher chlorine demand, requiring an increased disinfectant dose and resulting in higher DBP formation potential. Therefore appropriate chlorine management throughout the treatment and distribution system is important.

(Continued next page)

(OEL Continued)

When a water system experiences an OEL exceedance, notification from ADH will be sent by certified mail. The water system will be required to evaluate their system, determine the cause, minimize future exceedances, prepare and submit an OEL Report to the ADH within 90 days of receipt of the OEL notification. The ADH has developed questionnaires and forms to assist systems with conducting the operation evaluation and preparing the OEL Report. These tools are on the ADH Engineering Section Reports and Forms webpage: <http://www.healthy.arkansas.gov/programsServices/environmentalHealth/Engineering/Pages/ReportsandForms.aspx>

The documents on the ADH Engineering Webpage are;

- Frequently Asked Questions about the Operational Evaluation Level, and
- Operational Evaluation Questionnaire (Consecutive, Groundwater, and Surface water).

For further information regarding the Stage 2 DBP Rule and OEL Reporting requirements contact Aaron Hilborn or Jack Wilson, Engineering Section.

BACKFLOW PREVENTION ASSOCIATION OF ARKANSAS

Thomas Johnson, P.E., ADH Cross-Connection Control Program Engineer

The Backflow Prevention Association of Arkansas (BPAA) is a not-for-profit organization whose members have a common interest in protecting drinking water from contamination through cross-connections. As a chapter of the American Backflow Prevention Association, the BPAA is an organization dedicated to education and technical assistance. Through its network of members, local needs and interests are supported with the resources of the state and national organization. The BPAA is committed to advancing all aspects of backflow prevention for the continued protection of all water users.

Current BPAA Directors are:

Position 1, President, Harlan Henson, City of Fayetteville, 479-575-8383

Position 2, Vice President, Stephen Bitely, Arkansas Automatic Sprinklers, 501-843-9392

Position 3, Sec/Treasurer, Kelley Sharp, University of Arkansas at Fayetteville, 479-575-5470

Position 4, Jody Sheets, Conway Corporation

Position 5, James Barger, Arkansas Automatic Sprinklers, 479-445-9593

Position 6, Jim Lynch, City Corporation, Russellville, 479-968-2080 Ext 123

Position 7, Jay Northern, Instructor, Backflow Prevention Division at Arkansas Environmental Training Academy, SAU Tech, 870-574-4552

Position 8, Past President, Robbie Billingsley, Central Arkansas Water, 501-377-1226

Position 9, Thomas Johnson, P.E., ADH Cross-Connection Control Program Engineer, 501-661-2654

Position 10, Randy Harper, Director of Arkansas Environmental Training Academy, SAU Tech, 870-574-4590

(Note: positions 8 and 9 are non-voting members of the BPAA B.O.D.)

The BPAA holds meetings quarterly at different locations in Arkansas. These meetings provide 8 hours of direct training for water operator, backflow tester and backflow repair technician license renewal. Meeting agendas typically include speakers such as ADH Cross-Connection updates with question & answer sessions, water system operators, related equipment and service sales representatives, plumbing representatives, fire protection equipment and service representatives, water system instructors and backflow education instructors.

The 2014 meeting dates and locations are as follows:

- April 28, Hot Springs (AWW & WEA Conference)
- July 10, Paragould, CLWC Training Center, 1901 Jones Rd, Paragould
- September 18, Fayetteville Operations Center, 2435 S. Industrial Rd, Fayetteville
- December 11, AR Environmental Training Center, SAU Tech Campus, Camden

For more information please visit the ADH web site listed below. A search for "cross connection" provides links to many useful documents, listing of licensed backflow assembly testing and repair technicians and backflow prevention reference materials. www.healthy.arkansas.gov

Contact any member of the BPAA Board of Directors for more information concerning membership, meetings, etc.

Source Water Protection

Substantial Implementation Status: Purchase Systems and Transient Systems

Stephanie Burchfield, Source Water Environmental Health Specialist

In the last newsletter, I discussed substantial implementation status. In review, EPA and ADH encourages all community public water systems to participate in this non-regulatory program. To reach substantial implementation, a community PWS must have a SWP program in place that includes:

- ✓ Management team (community board or citizens council)
- ✓ Phase I report (prepared by ADH)
- ✓ Phase II report (prepared by ADH)
- ✓ **and either** a SWP/WHPP ordinance or resolution
- ✓ **or any two** of the following:
 - Up to date emergency plan
 - Approved local public outreach program
 - Drinking water protection signs
 - or Any other control strategy deemed acceptable by ADH SWPP

What if your system purchases water or is not a community system?

If a system purchases water from another system(s), they are rated as substantially implemented if all water supplier(s) have reached substantial implementation and the purchase system has an emergency plan in place. For example, if system A purchases water from two other systems (B&C), systems B&C providing the water would both have to be under substantial implementation status and system A would have to have an up to date comprehensive emergency plan in place. If all those criteria are met, system A has also achieved substantial implementation.

Transient water systems are not included in the program. By definition, transients are non-community water suppliers, and thus the limited user exposure to these type source waters poses few health risks so they are exempt. However, transient systems can follow some best management practices in areas near their water source to be proactive about protecting their water quality. Some common hazards to eliminate from the areas near the water source are: livestock, pesticide or fuel storage tank systems, farm equipment containing fuel or oil, and septic systems. Being mindful of these potential contamination sources near the water source is a great way to assist in the protection of the system's water quality.

ADH source water protection staff wants to help all interested operators and governing boards achieve substantial implementation status. The best way for a PWS to be proactive about achieving this status is to adopt a source water protection ordinance or resolution, to make sure there is an up-to-date emergency plan in place, and to install drinking water protection signs. ADH staff can provide an example source water protection ordinance/resolution upon request, and detailed information on installing drinking water protection signs. If you are interested, please call Stephanie Burchfield for assistance at (501) 280-4428.

Public water systems achieving the Substantial Implementation Milestone since March 2014:

McCrary Waterworks
Humphrey Waterworks
Strong Waterworks
New London Water Association
Dumas Waterworks
Beebe Waterworks

Congratulations to these community public water systems on reaching the Substantial Implementation Milestone and for making the extra effort to protect their valuable drinking water sources.

REPORT OF THE Arkansas Drinking Water Advisory and Operator Licensing Committee

Martin Nutt, Training and Certification Officer

The Arkansas Drinking Water Advisory and Operator Licensing Committee held its quarterly meeting on April 2, 2014 in Lonoke, Arkansas. Committee members present were: Susan Merideth, P.E., Committee Chair, Jonesboro City Water and Light; Matthew Dunn, P.E., Committee Chair Elect, Crist Engineers, Inc.; Stacy Cheevers, Beaver Water District; Roger Moren, Sardis Water Association; Dr. Findlay Edwards, P.E., University of Arkansas and Jeff Stone, P.E., Executive Secretary, Arkansas Department of Health (ADH). One member, Tim Shaw, Community Water System, was unable to attend. ADH staff & guests present were: Reginald Rogers, Legal, ADH; Martin Nutt, Training and Certification Officer, ADH; Ida Hampton, Administrative Specialist, ADH; Randy Harper, Arkansas Environmental Training Academy; and Dennis Sternberg and Jim Philipp, Arkansas Rural Water Association.

Standing Business

The Committee reviewed and approved the minutes from the January 22, 2014 meeting. The Committee did not have a High School waiver to consider.

Old Business

The Committee received an update from Nutt concerning the progress of obtaining the appointment of a new license committee member to replace Merideth as her term expires June 30, 2014. See related article titled "Bradley Scheffler Appointed to Water License Committee" in this newsletter.

The Committee received an update from Nutt related to exam content and exam schedule changes required to meet new requirements from the Association of Boards of Certification (ABC) and to reduce Engineering Section staff time spent proctoring exam sessions. He provided a handout detailing the progress being made towards converting from Association of Boards of Certification (ABC) customized license exams to ABC's Standardized National License Exams noting all needed arrangements for the conversion were progressing and the July 1, 2014 conversion date would be met. The handout also addressed the

changes in exam session scheduling to quarterly, effective July 1, 2014, and the requirement that operators must schedule exams 45 days in advance of the exam sessions. He updated the Committee on utilizing Applied Measurement Professionals (AMP) for the administration of ABC standardized computer-based internet-accessed license exams. He informed the Committee that it was feasible to utilize AMP and that the implementation process had begun with a feasible goal of providing operators the option of utilizing computer based exams by July 1, 2014. He outlined the basic process operators would follow to utilize AMP, including AMP's additional \$64.00 exam administration fee. He reminded the Committee that AMP Assessment Centers are located in Little Rock, Fayetteville, Memphis, Shreveport, Tulsa, Springfield, MO., and other sites internationally. He noted AMP provides the computer based exams within a short timeframe with a flexible exam session schedule. Nutt stated that the option of using AMP computer based exam sessions provides a timely alternative to the paper based quarterly exam sessions. Please see related articles in this newsletter providing additional information related to the exam session changes, exam changes, and utilizing AMP computer based exams.

New Business

Stone briefed the Committee on the Section's initial efforts towards implementing the Federal Drinking Water Standards Revised Total Coliform Rule published February 13, 2013. He informed the Committee the Section was taking steps to implement the Rule including the recent revision of the Rules and Regulations Pertaining to Public Water Systems to have an effective date later than the RTCR effective date so the Section can enforce the RTCR. He stated Lance Jones, the Section's Chief Engineer, was taking the lead role in the implementation, staff were developing implementation concepts, and the Section's submittal to EPA for primacy approval for the RTCR. Please see related article in this newsletter for additional information on the RTCR.

Nutt provided the Committee for its review and approval their annual report to the Arkansas Water Works and Water Environment Association. The report is to be presented at the 2014 AWW&WEA Annual Conference's Opening Session. The report provides Committee membership information, types and number of licensed operators, and number of enforcement actions taken. The Committee approved the report for presentation.

Committee Reports

Stone, in his Section Director's report, stated the Section was holding its own and pretty much fully staffed. He noted the Section's finances continue to meet needs and discussed that the service fees continue to erode in buying power due to inflation, that new revenue from additional service connections had "flat lined" in recent years, and with increasing sampling and analysis costs an increase in the service fees would be needed at some point in time.

Nutt provided a Licensing Program report. He referenced a spreadsheet handout titled "Water License Exam Report" pointing out where the present exams scoring performance was shown on the spreadsheet, noting passing rates remained stable. He reviewed a summary of licensing compliance enforcement efforts, taken by the Section. He reported Administrative Hearings, before a Sub-Committee of the Board of Health was held for Dermott Waterworks and Bealuh Grove Water Association. Dermott Waterworks requested and was granted additional time to license existing staff. It was reported Bealuh Grove Water Association was securing funding for system improvements and the funding required the system be taken over by an existing water system. The Sub-Committee postponed further action pending the outcome of the system improvements. Nutt noted Bowser Water

Association, Banks Waterworks, and Walker Water Association had all become compliant before their hearings were held. Nutt reported the overall license program continued to be fully staffed, exam results and licenses were being processed timely, ABC grading times were around 3 weeks, and Compliance Courses were being held.

Harper provided a training report for the Arkansas Environmental Training Academy. He reported the Academy was in the budget process, that its income was expected to remain flat, and the Academy would work within those parameters. He stated the Academy had held 17 water classes with 120 total students and 19 cross-connection classes with 115 total students.

Sternberg provided a training report for the Arkansas Rural Water Association showing 12 water classes with a total of 527 students. He reported National Rural Water Association had received a water training and technical assistance grant from EPA and that ARWA would receive a share of the grant.

Other Business

The Committee confirmed their next meeting date for July 10, 2014 and concluded the meeting by expressing their thanks to Merideth for her time on the Committee.

Arkansas Rural Water Association Annual Technical Conference & Exhibition

Hot Springs Convention Center

September 14 – 17, 2014

Hot Springs, Arkansas

www.arkansasruralwater.org

Attendance at the conference can earn you up to 16 contact hours of directly applicable water license training credit for full participation in the conference. The conference includes two (2) full days of training. ARWA plans to have six (6) training topics offered each session, with four (4) sessions each day. Typically, no training topic will be repeated. The exhibit hall Monday morning through Tuesday morning will have water industry related companies displaying their products.

The Conference will track attendance credit hours by scanning your conference badge barcode at stations Monday and Tuesday with a morning and afternoon scan. You must scan each morning & afternoon to receive full credit.

No Mandatory water training courses for exam purposes will be offered during this conference. License Exams will be held at the convention facility.

American Water Works Association Southwest Section Annual Meeting

Hyatt Regency, Tulsa, OK

October 12 - 14, 2014

www.swawwa.org/annual-conference-home

The conference includes two (2) full days of training. There will be three (3) training topics offered each session, with six (6) sessions each day. Typically, no training topic will be repeated. There will be an exhibit hall with a wide selection of water industry related companies displaying their latest and best products. The conference is approved for a total of 16 contact hours of directly applicable water license training credit for full participation.

This conference will not provide any mandatory training courses for licensing exams or license exams.

Major Monitoring, MCL, Treatment Technique, & Licensing Violations

Community & Nontransient Noncommunity Public Water Systems, Jan.- Mar. 2014

ADC CUMMINS UNIT MAIN	BMCL 1		
ADC CUMMINS UNIT MAIN	PN 3		
AR DEPT OF CORRECTION IZARD	Bmon 2	MAUMELLE WATER MANAGEMENT	Bmon 1
ASP MT MAGAZINE BANKS	DBPR 1, 2, 3	MENA WATER DEPARTMENT	DBPR 1, 2, 3
BAUXITE	PN 3	MONTGOMERY CO REGIONAL PWA	DBPR 1, 2, 3
BENTON-WASH. RPWA	DBPR 2	MONTGOMERY CO REGIONAL PWA	Bmon 2
BEULAH GROVE	PN 1, 2, 3	NEW LONDON WATER	PN 2
BEULAH GROVE	DBPR 1, 2, 3	NEW LONDON WATER ASSN	BMCL 3
BEULAH GROVE	Bmon 3	OGDEN WATERWORKS	Bmon 2
BLUE MOUNTAIN WATER	DBPR 1, 2, 3	PANGBURN WATERWORKS	PN 1, 2, 3
BODCAW RURAL WATER	DBPR 1, 2, 3	PANGBURN WATERWORKS	Bmon 2
BOYDELL WATER	BMCL 1	READLAND-GRANDLAKE WA	DBPR 3
BOYDELL WATER SYSTEM	Bmon 2	ROE WATERWORKS	Bmon 1
CALHOUN COUNTY WATER	Bmon 2	SPARKMAN WATERWORKS	BMCL 3
CONCORD WATER & SEWER	PN 1	STRAWBERRY WATER	BMCL 3
CORNING	Oper Lic 1, 2	SUMMIT WATERWORKS	Bmon 1
DEER RUN WATER CO	Bmon 2	TRI-COUNTY WATER DIST. DIST	Bmon 3
DENNING WATERWORKS	PN 2	VANDERVOORT WATER	PN 2
DENNING WATERWORKS	BMCL 3	WALKER WATER ASSN	PN 1
DERMOTT WATERWORKS	DBPR 1, 2, 3	WARD MHP	DBPR 1, 2, 3
DERMOTT WATERWORKS	BMCL 1	WARD MHP	PN 3
EAST NEWTON COUNTY	Bmon 1	WATSON WATERWORKS	PN 1
ELAINE WATERWORKS	OperLic 3	WATSON WATERWORKS	Bmon 2, 3
ELAINE WATERWORKS	Bmon 3	WATSON WATERWORKS	GWR 3
EUDORA WATERWORKS	DBPR 3	WIEDERKEHR VILLAGE WATER	PN 2
FIFTY SIX WATERWORKS	Bmon 1	WIEDERKEHR VILLAGE WATER	BMCL 3
FOUKE WATERWORKS	DBPR 1, 2, 3	WILLISVILLE WATERWORKS	Bmon 1, 2
FOUKE WATERWORKS	Bmon 1, 2, 3		
FOUKE WATERWORKS	PN 2, 3		
FREE HOPE WATER ASSN	Bmon 1		
GLENWOOD WATER	TMCL 1		
GRAVETTE WATER	DBPR 2		
GREENWAY WATERWORKS	Bmon 1		
HARTFORD WATERWORKS	DBPR 1		
HARTFORD WATERWORKS	Bmon 2		
JOHNSON TWP WATER	BMCL 2		
JOHNSON TWP WATER	GWR 2		
KINGWOOD MHP	BMCL 1		
LAKE VILLAGE WATER	BMCL 1		
LOCKESBURG WATER	Bmon 2		
MARYSVILLE WATER	BMCL 1		
ASSN			

KEY: Bmon = Bacti Monitoring; BMCL = Bacti MCL; Dmon = Disinfection By Product Rule Monitoring; DBPR=Disinfection By Product Rule MCL or Treatment Technique; GWRMCL=GWR Treatment Technique; GWRmon= GWR Monitoring or Reporting; Tmon = SWTR Major Monitoring; TMCL = SWTR Treatment Technique; SWTR= Various SWTR requirements; Failure to Filter; RMCL = Radiochemical MCL; FMCL = Fluoride MCL; IMCL=Inorganic Chemical MCL; SMCL = Synthetic Chemical MCL; OperLic = Operator Licensing; 1 = Jan 2014, 2 = Feb. 2014, 3 = Mar 2014

Water Operator Licenses Issued MARCH 1, 2014 THROUGH MAY 31, 2014

LICENSEE NAME	GRADE/TYPE	WATER SYSTEM NAME
APPLETON JAMES	D - I	GATEWAY PUBLIC WATER AUTHORITY
BECK GARY	D - I	BAUXITE WATER
BELLOMY ROCKY	D - II & T - II	ARSENAL WATER SYSTEM
BLANSETT STEVAN	D - II	OZARK ACRES WATER ASSOCIATION, & RAVENDEN WATERWORKS
BOBBITT JUSTIN	D - IV	CENTRAL ARKANSAS WATER
BOTTOMS ROBERT	D - IV & T - IV	BEAVER WATER DISTRICT
BRIDGES NICOLE	D - IV	BEAVER WATER DISTRICT
CADE MICHEAL	D - III	WARREN WATERWORKS, SW WARREN WATER ASSOCIATION, & CORINTH VALLEY WATER SYSTEM
CALDWELL LORIE	T - II	YORKTOWN WATER ASSOCIATION
CLANCY ROBERT	T - I	NAT CTR FOR TOXOLOGICAL RES
DUBOSE JOSHUA	T - I	BEEBE WATERWORKS
FRYAR MATTHEW	D - IV	TRI-COUNTY REG WATER DISTBR DIST
GATTER MATTHEW	D - IV	JACKSONVILLE WATERWORKS
GILLESPIE FRANK	T - II	ARK STATE PARK MT MAGAZINE
GOEBEL KALEB	D - I	HAVANA WATERWORKS
HAYNES TIMOTHY	T - III	OSCEOLA WATERWORKS
HENNINGS RICHARD	T - IV	MENA WATER DEPT
HICKS AMANDA	D - IV & T - IV	WEST MEMPHIS WATERWORKS
HICKS KIM	D - I	BONANZA WATERWORKS
HILDEBRAND BENNIE	D - II	SMACKOVER WATERWORKS
HILLMAN JOHN	D - I & T - II	REMINGTON ARMS COMPANY
HUNTER MATTHEW	T - II	MC CRORY WATERWORKS
JACKSON RANDY	T - II	ASHDOWN WATERWORKS
JONES JULIAN	T - III	HWY 63 WATER ASSOCIATION
KIRKENDOLL BRENT	D - IV	MAUMELLE WATER MANAGEMENT
LEWIS JAMES	D - IV	CENTRAL ARKANSAS WATER
MATHIS ANTHONY	D - I	MARSHALL WATERWORKS
MCMURTRY BRANDON	D - IV	VILONIA WATERWORKS
MERWORTH ANTONY	D - IV	CAVE SPRINGS WATERWORKS
MOORE JASON	D - IV	CENTRAL ARKANSAS WATER
MORAN KEVIN	T - IV	SOUTHSIDE PUB WATER AUTHORITY
MOSS KEVIN	D - IV	TULIP - PRINCETON WATER ASSN, SPARKMAN WATERWORKS, & LEOLA WATERWORKS
MYERS GARY	D - I	YARBRO WATERWORKS
PARISH DARREN	D - IV	MALVERN WATERWORKS, POYEN WATERWORKS, TULL WATER, & HWY 9 WATER ASSOCIATION
PITTS GREGORY	D - I	GLENHAVEN YOUTH RANCH
REIMERS TY	D - IV & T - IV	LITTLE RIVER CO RDA
ROBERTSON JONATHAN	D - III	BONO WATERWORKS
SHADWICK SHAWN	D - IV	MAUMELLE WATER MANAGEMENT
STUART MICHAEL	D - II	HEBER SPRINGS WATER SYSTEM
TIPTON COLON	T - III	ENGLAND WATERWORKS
WARD HEATH	D - IV	SPRINGDALE WATER UTILITIES
WEST RICHARD	T - IV	CENTRAL ARKANSAS WATER
YATES JEFFERY	T - IV	HOPE WATER LIGHT COMM

Mandatory Training Course Schedule

Most Current Listing and when available the 2014 schedule is at:
www.healthy.arkansas.gov/eng/autoupdates/oper/mandtrngall.htm.

Please contact the course sponsor to register for a course well in advance of course date.

WATER LICENSE EXAM SESSION WILL NOT BE HELD AT THE END OF MOST COURSES.

(Please note all mandatory courses begin at 8:00 a.m.)

Mandatory Course Name	START DATE	ENDING DATE	Time	CITY	LOCATION	SPONSOR
Advanced Water Treatment	07/01/14	07/15/14	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Math	07/08/14	07/08/14	8:00 AM	Nashville	Carter Day Center, 200 Nichols Drive	ARWA
ADH PWS Compliance	07/09/14	07/09/14	8:00 AM	Nashville	Carter Day Center, 200 Nichols Drive	ADH
Applied Math	07/10/14	07/10/14	8:00 AM	Nashville	Carter Day Center, 200 Nichols Drive	ARWA
Basic Water Treatment (Night	07/14/14	07/24/14	TBA	Fort Smith	Fort Smith Utilities, 3900 Kelly Hwy	AETA
Basic Water Treatment	07/15/14	07/17/14	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Advanced Water Distribution	07/16/14	07/31/14	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Intermediate Water Treatment	07/29/14	07/31/14	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
Advanced Distribution	07/29/14	07/31/14	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Basic Water Math	08/01/14	08/15/14	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Applied Water Math	08/16/14	08/30/14	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Advanced Water Treatment	08/19/14	08/21/14	8:00 AM	Lowell	Beaver Water Dist, 301 N Primrose Rd	AETA
Basic Distribution	08/26/14	08/28/14	8:00 AM	Nashville	Carter Day Center, 200 Nichols Drive	ARWA
Basic Water Treatment	08/26/14	08/28/14	8:00 AM	Paragould	Holiday Inn Express, 3502 Linwood Dr	AETA
Basic Water Treatment	09/01/14	09/15/14	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Intermediate Water Treatment	09/09/14	09/11/14	8:00 AM	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	AETA
Basic Water Math	09/16/14	09/16/14	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Intermediate Water Distribution	09/16/14	09/18/14	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	AETA
Basic Water Distribution	09/16/14	09/30/14	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Applied Water Math	09/17/14	09/17/14	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
ADH PWS Compliance	09/18/14	09/18/14	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	ADH
Intermediate Treatment	09/23/14	09/25/14	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Advanced Water Distribution	09/23/14	09/25/14	8:00 AM	Hot Springs	HS Transportation Depot, 100 Broadway Terrace	AETA
Intermediate Water Treatment	10/01/14	10/15/14	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Math	10/14/14	10/14/14	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
Applied Water Math	10/15/14	10/15/14	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
ADH PWS Compliance	10/16/14	10/16/14	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	ADH
Intermediate Water Distribution	10/16/14	10/31/14	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Advanced Distribution	10/21/14	10/23/14	8:00 AM	West Fork	Wenzel Community Center, 222 Webber	ARWA
Intermediate Water Treatment	10/21/14	10/23/14	8:00 AM	Maumelle	Wastewater Plant Training Rm, 425 B Hyman Drive	AETA
Advanced Water Treatment	11/01/14	11/15/14	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Advanced Water Treatment	11/04/14	11/06/14	8:00 AM	Maumelle	Wastewater Plant Training Rm, 425 B Hyman Drive	AETA
Advanced Water Distribution	11/16/14	11/30/14	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Treatment	11/18/14	11/20/14	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	AETA
Advanced Treatment	11/18/14	11/20/14	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Applied Water Math	12/01/14	12/15/14	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Math	12/01/14	12/15/14	TBD	Internet	http://www.sautech.edu/aeta/schedule.aspx	AETA
Basic Water Distribution	12/02/14	12/04/14	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
Basic Math	12/09/14	12/09/14	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
ADH PWS Compliance	12/10/14	12/10/14	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ADH
Applied Math	12/11/14	12/11/14	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Advanced Distribution	12/16/14	12/18/14	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Intermediate Water Distribution	12/16/14	12/18/14	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA

The most current Mandatory Training Schedule with location information is available at
<http://www.healthy.arkansas.gov/eng/autoupdates/oper/mandtrngall.htm>

WATER OPERATOR LICENSE EXAMINATIONS SCHEDULE

The most current Exam Schedule is at: <http://www.healthy.arkansas.gov/eng/autoupdates/oper/operexam.htm>

You must register for the exam 45 days in advance. To register on the internet go to www.healthy.arkansas.gov/eng and click on Operator Certification, then select Register- Water License Exam. To register by e-mail provide name, license exam desired, exam session site, and exam date in an email addressed to ADH.Water.Licensing@arkansas.gov. You may register by phone with the Water Licensing Program at (501) 661-2623. Call (501) 661-2623, ask for Water Licensing Program.

Listed below are the dates and locations of examination sessions as scheduled, as of **June 30, 2014**. All Treatment and Distribution exam grades will be available at the sessions. Acceptable photo identification (Drivers License or equivalent) will be required to sit for an Exam. Cell phones, pagers and other electronic communication devices are not allowed. Non-Programmable calculators are allowed in exam sessions.

EXAM DATE	REGISTER DEADLINE	CITY	LOCATION	TIME
9/5/2014	7/22/2014	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	9:00 AM
9/5/2014	7/22/2014	Mtn. Home	Baxter Co OEM Training Facility, 170 Dillard Dr, Midway	9:00 AM
9/5/2014	7/22/2014	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
9/12/2014	7/29/2014	Camden	AR Environmental Training Academy, 100 Carr Road	9:00 AM
9/12/2014	7/29/2014	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	9:00 AM
9/12/2014	7/29/2014	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	9:00 AM
9/17/2014	8/4/2014	Hot Springs	ARWA Annual Conf, HS Convention Center	9:00 AM
12/5/2014	10/21/2014	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00 AM
12/5/2014	10/21/2014	Nashville	Carter Day Center, 200 Nichols Drive	9:00 AM
12/5/2014	10/21/2014	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	9:00 AM
12/12/2014	10/28/2014	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	9:00 AM
12/12/2014	10/28/2014	Camden	AR Environmental Training Academy, 100 Carr Road	9:00 AM
12/12/2014	10/28/2014	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	9:00 AM

The above exam session information is subject to change. You should confirm this information just prior to the scheduled examination period. Also, the latest exam schedule information can be viewed on the Internet at: <http://www.healthy.arkansas.gov/eng/autoupdates/oper/operexam.htm> .

Remember, you must register for the exam 45 days in advance.

Please verify that your license application has been filed with this office and that the required exam fee for each exam has been paid. The license exams require significant preparation prior to sitting for the exam. The preparation must include extensive study utilizing the study guide and recommended reference materials. Credit for the mandatory Certification Training Courses must be obtained before taking an exam. Copies of your training documentation must be provided when registering for an exam or provide documentation of its attendance by the exam session.

Free Water Exam Manuals

Systems eligible for manuals are all Community Public Water Systems or Non-Community Non-Transient Public Water Systems serving a retail population of fewer than 3300 persons. The manuals, see table below, are provided to the water system, not the individual operator. The manuals are provided by the EPA Operator Certification Training Grant. A simple request to Water Operator Licensing Program by phone at (501) 661-2623 or email at ADH.Water.Licensing@arkansas.gov is all that is required.

Reference Manuals Provided OpCert Grant Eligible Systems	Value
Water Treatment Plant Operation, Volume I, by CSU Sacramento*	\$49.00
Water Treatment Plant Operation, Volume II, by CSU Sacramento*	\$49.00
Water Distribution System Operation & Maintenance, by CSU Sacramento	\$49.00
Small Water System Operation and Maintenance, by CSU Sacramento	\$49.00
Manage For Success, by CSU Sacramento	\$49.00
Utility Management, by CSU Sacramento	\$29.00
Water System Security: A Field Guide by American Water Works Assn	\$65.00
Operator Certification Study Guide by American Water Works Association	\$59.00
Total Value of Set	\$398.00

* Manual provided if system is required to have treatment-licensed operators.

ENGINEERING SECTION
 ARKANSAS DEPARTMENT OF HEALTH
 4815 WEST MARKHAM, SLOT 37
 LITTLE ROCK, AR 72205-3867
 (501) 661-2623
www.HealthyArkansas.com/eng/

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AWW&WEA District Meetings

See also the Division's web site www.healthyarkansas.com/eng/ for updates.

DATE	TIME	CITY	LOCATION	SPONSOR
<u>July 2014</u>				
3	5:30 PM	Fort Smith	Golden Corral	Western District, AWW&WEA
3	5:00 PM	Jacksonville	Community Center	Central District, AWW&WEA
9	8:30 AM	Pea Ridge	Emergency Srvcs. Bldg	Northwest District, AWW&WEA
10	5:00 PM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
10	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	North Central District, AWW&WEA
10	5:30 PM	Marvell	Elm St. Training Center	Eastern District, AWW&WEA
15	5:00 PM	Star City	Country Village BBQ	Southeast District, AWW&WEA
17	12:30 PM	Paragould	Couch's BBQ	Northeast District, AWW&WEA
24	6:00 PM	El Dorado	Water Utility Mtg. Room	Southwest District, AWW&WEA
<u>August 2014</u>				
7	5:00 PM	TBA	TBA	Central District, AWW&WEA
7	6:00 PM	Fort Smith	Golden Corral	Western District, AWW&WEA
13	8:30 AM	Siloam Springs	110 N. Mount Olive	Northwest District, AWW&WEA
14	5:30 PM	Des Arc	Dondie's Riverboat	Eastern Central District, AWW&WEA
14	5:30 PM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
14	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	North Central District, AWW&WEA
19	5:00 PM	Watson Chapel	Leon's	Southeast District, AWW&WEA
21	12:30 PM	Jonesboro	Ron's Catfish	Northeast District, AWW&WEA
28	6:00 PM	Prescott	Casa Carlos Restaurant	Southwest District, AWW&WEA
<u>September 2014</u>				
4	5:00 PM	TBA	TBA	Central District, AWW&WEA
5	5:30 PM	Fort Smith	Columbus Acres, Picnic	Western District, AWW&WEA
9	5:00 PM	Monticello	Cowboys	Southeast District, AWW&WEA
10	8:30 AM	Springdale	Jones Center	Northwest District, AWW&WEA
11	5:30 PM	Forrest City (Caldwell)	Catfish Island	Eastern District, AWW&WEA
11	8:30 AM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
11	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	North Central District, AWW&WEA
18	12:30 PM	Paragould	Grecian Steakhouse	Northeast District, AWW&WEA
25	6:00 PM	E. Camden	AETA	Southwest District, AWW&WEA