



ARKANSAS DRINKING WATER UPDATE

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ENGINEERING SECTION – DEPARTMENT OF HEALTH

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UCMR3 Update

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Supervisor

Get ready. Get set. Go. The Unregulated Contaminant Monitoring Rule 3 (UCMR3) sampling starts January 9, 2013. The primary purpose of the UCMR3 is to collect data for presently unregulated contaminants suspected by EPA to be present in drinking water. Sample result data collected from the UCMR3 will be reported to the United States Environmental Protection Agency/ Office of Ground Water and Drinking Water (USEPA OGWDW) and used to determine if these contaminants should be regulated in the future.

A new UCMR monitoring list is developed every five years and in the state of Arkansas, 70 water systems were selected for monitoring under the UCMR3 and consisting of 7 analytical methods. In order to assist public water systems the Engineering Section will coordinate and collect all UCMR3 compliance samples for large and small systems.

For public water systems serving 10,000 people or greater, the monitoring costs will be covered by the Engineering Section utilizing funds obtained from the public water system service fees. The Arkansas Department of Health, Public Health Laboratory will analyze 4 of the UCMR3 analytical methods, (1) EPA Method 200.8 Metals, (2) 218.7 Chromium-6, (3) 300.1 Chlorate and (4) 524.3 VOCs. The remaining 3 UCMR3 analytical methods, EPA Method 522 SOC 1-4-Dioxane, 539 Hormones and 537 Perfluorinated Compounds, will be submitted to a private EPA certified laboratory, McCampbell Analytical Inc., located in Pittsburg, California. The Office of State Procurement issued an Invitation for Bid, on October 17, 2012, for UCMR3 laboratory services to be provided to the

Engineering Section. Three UCMR3 certified laboratories submitted bid proposals. McCampbell Analytical Inc. Laboratory was officially awarded the bid on November 13, 2012.

For public water systems serving less than 10,000 people, monitoring costs will be covered by the USEPA. USEPA awarded Eurofins Eaton Analytical, also located in California, to provide analytical services to Public Water Systems with populations less than 10,000.

Public water systems will monitor on a schedule as dictated by USEPA during the 2013 to 2015 monitoring cycle. Systems utilizing a surface source will monitor for 4 consecutive quarters and systems utilizing a ground source will monitor for 2 quarters (6 months apart). All public water systems will be contacted by an Arkansas Department of Health Engineer Technician one week in advance of their scheduled sampling date. Contract laboratories will ship laboratory kits directly to the Engineering Section two week prior to sampling. Engineer Technician's will collect and ship samples overnight via., FedEx or UPS.

The State of Arkansas, Engineering Section is one of the few state agencies in the United States that is coordinating and collecting UCMR3 compliance samples. Most states have opted to let Public Water Systems collect their own samples due to the complexity of the rule. The Engineering Section has made a commitment to provide technical services to the Public Water Systems in order to assure compliance with USEPA regulations and will continue to do so in the future. If anyone has questions regarding the UCMR3 monitoring rule, coordination or sample collections, please feel free to contact Susan Corder, R.S., Environmental Specialist at (501)661-2623 or email Susan.Corder@Arkansas.gov.

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ASDWA's Annual Conference Held in Little Rock

Jim Taft, Executive Director, ASDWA

The Association of State Drinking Water Administrators held its 27th Annual Conference in Little Rock, Arkansas the week of October 15th, which was attended by approximately 210 individuals, including representatives of 43 state drinking water programs and one from the Territory of Guam. The conference also included representatives of EPA Headquarters, EPA Regions, the Centers for Disease Control & Prevention, the U.S. Geological Survey, technical assistance provider organizations, water utility organizations, water utilities, academia, and equipment manufacturers.

The meeting began with a State-EPA Roundtable that allowed for an informal exchange between state drinking water administrators and their EPA-HQ and Regional counterparts on a wide array of current issues of mutual interest. The formal portion of the meeting kicked off the following day with a plenary session which included perspectives from Dr. Joe Bates of the Arkansas Department of Health; Nancy Stoner, EPA's Acting Assistant Administrator for Water; and Pam Barr, EPA's Acting Director of the Office of Ground Water and Drinking Water. The meeting then broke into a series of 44 concurrent sessions on an array of drinking water topics of keen interest to states: source water protection, treatment technologies, drinking water rule implementation and water system optimization, drinking water security, water system capacity development, water supply, and data management. The conference concluded with a plenary panel discussion of the challenge of dealing with waterborne disease outbreaks. Finally, taking advantage of this confluence of state drinking water administrators, ASDWA piggy-backed a special afternoon training session for administrators on the Department of Homeland Security's Incident Command System to the end of the conference.

A special event, during the course of the conference, was a private tour and dinner at the Clinton Presidential Center. In addition to the Center, conference attendees very much enjoyed all that Little Rock had to offer, including the Arkansas River walk, an abundance of fine restaurants, and Arkansas hospitality – including the very capable staff of the Arkansas Department of Health.

Operation And Chemical Report Forms Mailed

Jeff Stone, PE, Director

During the month of December, the Arkansas Department of Health (ADH) mailed out a 12 month supply of operation and chemical report forms to all public water systems in the state for use during the 2013 calendar year. This mailout included the various forms such as bacteriological monitoring forms, operation and chemical report forms, and individual filter monitoring forms, etc. The complete set of forms cover most of the information required to be submitted to the ADH in order for a water system to document compliance with the Safe Drinking Water Act (SDWA).

The requirements of the SDWA have become more complex and detailed over time and in many cases the specific reporting requirements vary depending upon system source type, treatment type and service population. The ADH makes every effort to mail the correct forms to each system based upon water system type and service population. The water system bears a responsibility to be part of this process and to look over the forms when they arrive and to verify that the correct forms have been mailed to them.

In previous years, the ADH has mailed the correct forms to each system with a relatively low error rate. If in the case that your system receive the incorrect forms or if you are unsure that you have received the correct forms, the first step would be to contact your District Specialist and discuss the issue with them. If in the case an error has been made, the correct forms will be promptly sent out to the water system in question. Your District Specialist or other Engineering Section personnel can be reached at (501) 661-2623

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Bacteriological Collection Report Form Changing

Lyle Godfrey, P.E., Chief Technical Support

Effective February 1, 2013, the Arkansas Department of Health will begin using a new Bacteriological Collection Report Form. The

changes are necessary following an update in software used to report to EPA. The previous reporting software allowed reporting of resample results without linking them to previous samples. The updated software will correlate the new results to the routine TCR positive sample(s) which triggered the resampling event. Information identifying the type of resample must also be captured. A copy of the new form is shown below.

+ <input type="checkbox"/> 3A <input type="checkbox"/> 3B +		ARKANSAS DEPARTMENT OF HEALTH Public Health Laboratory, 201 South Monroe Street Little Rock, AR 72205-5425			WATER ANALYSIS-BACTERIOLOGICAL	
		LABORATORY USE ONLY DO NOT WRITE IN THIS SPACE →	Sample Shipped Via (Laboratory Use Only)	Laboratory Number (Laboratory Use Only)	Date and Time Received (Laboratory Use Only)	
Date and Time Sample Collected (Required)						
MONTH	DAY	YEAR	HOUR	(Must Check Box)		
			Exact Time	<input type="checkbox"/> AM	<input type="checkbox"/> PM	
Public/Non-Community System Use Only						
Water System Name		Water System ID Number (Required)		Site Code		
Definite Location of Sample		City	County	Collected By:		
Private Submitters/Local Health Units Only						
Definite Location of Sample		Collected By:				
City	County	Note: Private Submitters Must Enclose a \$17.00 Per Sample Fee				
Send Report To:						
Name		_____				
Address		_____				
City/State/Zip		_____				
Date and Time Received (Laboratory Use Only)						
Source: <input type="checkbox"/> Well <input type="checkbox"/> Surface <input type="checkbox"/> Cistern <input type="checkbox"/> Spring						
<input type="checkbox"/> Plant Tap <input type="checkbox"/> Special/Investigation <input type="checkbox"/> New Construction						
<input type="checkbox"/> Regular Distribution Sample <input type="checkbox"/> Boil Order						
Resample:		<input type="checkbox"/> Repeat	Original Lab # _____			
		<input type="checkbox"/> Replacement				
Raw Water:		<input type="checkbox"/> Triggered Raw				
Chlorine Residual _____ Total <input type="checkbox"/> Free <input type="checkbox"/>						
ENVIRONMENTAL HEALTH SPECIALIST ONLY						
<input type="checkbox"/> Swimming Pool <input type="checkbox"/> Swim Beach <input type="checkbox"/> Investigation						
LABORATORY USE ONLY						
Rejection Code _____				Analyst's Initials _____		
Unsatisfactory Code _____						
Analyst Notes (Laboratory Use Only)						

The left portion of the form remains unchanged, except for minor spacing improvements. However, the right side of the form is significantly different. Several check boxes have been moved to other locations and three new check boxes have been added.

The most significant changes are illustrated in the excerpt, below. These modifications are designed to allow the State to better identify and to track the various types of samples collected for compliance with the Total Coliform Rule (TCR) or Ground Water Rule (GWR).

<input type="checkbox"/> Regular Distribution Sample	<input type="checkbox"/> Boil Order
Resample: <input type="checkbox"/> Repeat	Original Lab # _____
<input type="checkbox"/> Replacement	
<input type="checkbox"/> Raw Water: <input type="checkbox"/> Triggered Raw	
Chlorine Residual _____ Total <input type="checkbox"/> Free <input type="checkbox"/>	

“Regular Distribution Sample” should be marked to identify routine samples.

Routine samples that are either total coliform positive or E. coli positive require one or more resamples. “Repeat” should be marked to identify samples collected in response to a positive routine result.

Routine samples that are rejected by the lab because the sample was too old, the form incorrectly completed, or for any number of other reasons must be replaced with another sample. “Replacement” should be marked to identify samples collected to replace a rejected sample.

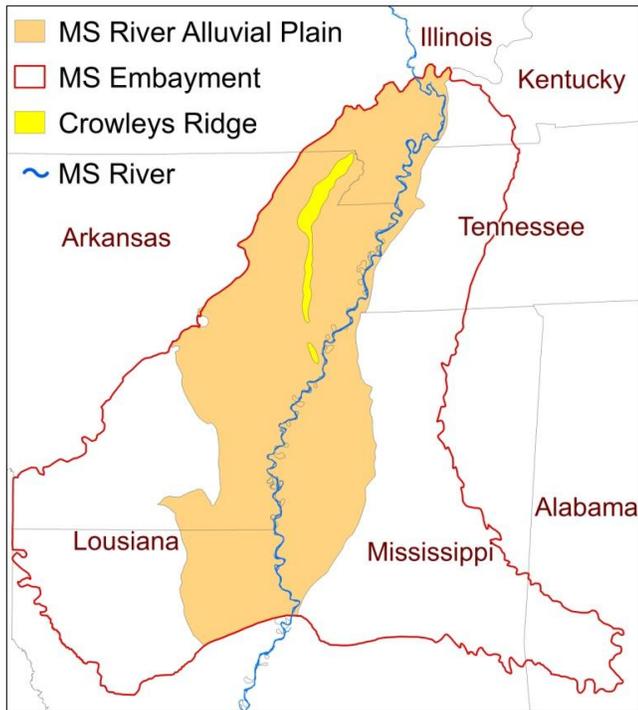
The GWR requires certain ground water systems to collect raw water samples in response to a positive routine distribution system sample. If you choose to use this form instead of the one provided for GWR samples, mark the “Triggered Raw” Box.

Finally, write the lab # of the routine sample that triggered any follow-up sampling in the box labeled “Original Lab #”. This will enable the State to link resamples (repeat and replacement) and triggered GWR to the original sample.

If you have questions, please contact your district staff at (501) 661-2623.

Geology and Groundwater Resources of the Mississippi River Alluvial Plain

Evelyn Kort, Geologist



The Mississippi River Alluvial Plain covers the eastern portion of Arkansas and is part of a much larger basin known as the Mississippi Embayment. The Mississippi Embayment covers portions of seven states and was a major center for sediments deposited in the geologic past. It includes the two most widely used aquifers in Arkansas: the Alluvial Aquifer and the Sparta Sand. Approximately 676 active public drinking water supply wells are in use in the Mississippi Embayment of Arkansas. The Mississippi River Alluvial Plain is also called the Delta; it is covered by rich soil and sediments deposited by the Mississippi River and its tributaries. This region provides highly productive farmland primarily for rice, soybeans, and cotton.

Layers of sediments, also known as formations, are often displayed in a stratigraphic column, as presented below. A stratigraphic column is a chart which presents each formation

vertically in the order it was deposited, with the youngest formation at the top and progressively older formations moving down through the chart. The youngest formation at the top of the chart is the shallowest and is present at the ground surface, the Alluvial Aquifer in this case. Moving down through the chart, the older formations or layers are found deeper in the subsurface. The deepest and oldest formation in the stratigraphic column presented below is the Wilcox. Formations may be grouped together based on common physical characteristics, as in the Claiborne Group. Formations and groups are presented in the order of their relative age. This is also known as geologic time. Geologic time is divided into epochs and periods. These represent chronological time on the order of tens of millions of years.

The Mississippi Embayment itself is even older than this; it was formed about 270 million years ago during the Ouachita Orogeny, the major tectonic event that created the Ouachita Mountains. Tectonic events occur as the plates of the earth's crust collide or move against each other. Tectonic events include volcanic activity, earthquakes and mountain building events as was the Ouachita Orogeny. About 200 million years later, the Mississippi Embayment was covered by the Late Cretaceous sea. This began a series of marine cycles when the Gulf of Mexico alternately advanced and retreated over the Mississippi Embayment. The advancing and retreating sea deposited a series of marine clays and continental sands. These represent the Tertiary aged sediments in Arkansas.

The deposition of sediments stopped at the end of the Eocene Epoch (~34 million years ago). This caused a ~30 million year gap in the geologic record; these gaps are known as unconformities. Deposition began again about 2.6 million years ago during the Pleistocene and continues today. These sediments make up the Alluvial Aquifer and are sediments deposited by present day and older streams.

In much of the Embayment, the younger Alluvial Aquifer is present at the ground surface and can be as thick as 350 feet. The Alluvial Aquifer consists of unconsolidated sediments that grade from gravel and sand at the base to

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(Geology, Continued)

silt and clay at the top of the formation.

The coarse basal sediments make a high yielding aquifer, while the upper fine grained sediments form a confining unit or “seal” over much of the aquifer. This seal is important because it protects the groundwater in the aquifer from influences at the ground surface such as chemical spills and pesticides sprayed on crops. The Alluvial Aquifer is the most widely used aquifer in Arkansas and provides the greatest yield, as much as 3000 gallons per minute. The Alluvial Aquifer is primarily used for irrigation. Irrigation accounts for 96% of groundwater use statewide (USGS October 2009 Report on Water Use in 2005).

The older Tertiary sediments beneath the Alluvial Aquifer include poorly consolidated sand, clay, silt, and lignite, and include the second most widely used aquifer in Arkansas, the Sparta Sand. The Sparta is used for industry and public water supply and typically yields 100 to 500 gallons per minute. The Cane River Formation is a layer of clay which is below the Sparta Sand. The Cook Mountain Formation is a layer of clay which is on top of the Sparta Sand. These formations are marine clays deposited when the sea advanced over the embayment. These clays serve as upper and lower confining units, or seals, and are important because they help to protect the groundwater in the Sparta Sand from contamination. In the northern part of the Mississippi River Alluvial Plain, where the Cane River contains more sand, the Sparta, Cane River and Carrizo Formations merge as the Memphis Sand. Wells completed in the Memphis Sand can yield 1500 gallons per minute or more. Lesser used Tertiary aged aquifers include the Cockfield Formation, the Carrizo Sand, and the Wilcox Formation.

The New Madrid Seismic Zone is an important structural feature of the Mississippi River Alluvial Plain. This is a zone of ancient faults which has reactivated causing a number of major intra-plate earthquakes. Intra-plate earthquakes occur in the interior of the North American tectonic plate as opposed to the edge of the tectonic plate as in California. The New

Madrid Fault Zone may be related to another geologic feature of the Mississippi River Alluvial

STRATIGRAPHIC COLUMN OF THE MISSISSIPPI RIVER ALLUVIAL PLAIN SEDIMENTS				
AGE million years	PERIOD	EPOCH	GROUP	FORMATION
2.6 – present	QUATERNARY	HOLOCENE and PLEISTOCENE		Alluvial Aquifer
34–2.6	UNCONFORMITY			
56 – 34 million years ago	TERTIARY	EOCENE	JACKSON	Jackson
			CLAIBORNE	Cockfield
				Cook Mountain
				Sparta Sand
				Cane River
				Carrizo Sand
WILCOX	Wilcox			

Madrid Fault Zone may be related to another geologic feature of the Mississippi River Alluvial Plain, Crowley’s Ridge. This is a 150-mile ridge which rises 250 to 550 feet above the surrounding alluvial plain and extends from southeast Missouri to Helena, Arkansas. Crowley’s Ridge is made up of Pleistocene aged silt, sand, and gravel topped by windblown loess (silt) in some areas. Historically, Crowley’s Ridge was thought to be an erosional remnant of Pleistocene age, formed as an island between the Mississippi and Ohio Rivers and then left as a long hilly ridge after the rivers changed course millions of years ago. New evidence suggests that Crowley’s Ridge experienced an uplift, which continues today, and links the ridge to the New Madrid Seismic Zone.

Input Sought – Possible Water Licensing Regulations Revisions

Martin Nutt, Licensing and Certification Officer

The Arkansas Drinking Water Advisory and Operator Licensing Committee formed the Mandatory Training Adequacy Workgroup in April 2012. The workgroup's task was to review the present mandatory training requirements for adequacy. The Workgroup provided the Committee with recommended changes at the October 10, 2012 Committee meeting. The workgroup stressed the recommendations were a consensus of the Workgroup members.

The Committee accepted the recommendations and advised the Engineering Section to address the recommended changes.

The Engineering Section is seeking wider industry stakeholder input and constructive comments prior to proposing actual licensing regulation changes.

The recommended changes under consideration for licensing regulation revision are:

- Combine 8-hour Basic Math, and 8-hour Applied Math courses into one 16-hour math course required for all license grades. Presently Very Small System, Grade 1 Treatment, and Grade 1 Distribution Licenses do not require Applied Math Course.
- Expand the 24-hour Intermediate and Advance Treatment classes to 32 hours.
- Expand the 24-hour Intermediate and Advance Distribution classes to 32 hours.
- Add the Advanced Distribution course to the required course list for the Distribution 3 exam.
- Expand the 8-hour Compliance course to 16 hours.
- Require courses be attended in logical/defined order of math, basic, intermediate, advanced, and compliance
- Hold exam sessions the following day after compliance courses.
- Exclude attendance of the mandatory math, treatment and distribution courses for the sole purpose of license renewal training.

Justifications for the changes were:

- The Workgroup recommendation is to structure the 16 hours of dedicated math training to provide a more comprehensive basic math curriculum. Providing the applied math curriculum during treatment and distribution courses will help students develop math skills appropriate for their particular license type and level.
- The increased hours in specific courses will provide needed time to better cover each course's curriculum and incorporate the Applied Math Curriculum.
- The recommendation to take courses in a specific order would eliminate the efforts spent trying to get students ready for the upper level courses who have not taken lower level course first.
- The recommendation for the Compliance Course be taken last allows the regulation topic matter to be familiar to the student with the outcome being better retention of the Compliance Course curriculum.
- The Workgroup believes the exclusion of courses for renewal only purposes will improve the learning environment in the classroom.

The Engineering Section requests comments in written form, preferably with commenter's name and contact information. Please submit comments to:

Martin Nutt, Training and Certification Office
Engineering Section, Slot 37
Arkansas Department of Health
4815 West Markham
Little Rock, AR 72209

Comments by email are acceptable, send to: martin.nutt@arkansas.gov

If after receiving the above requested comments, the ADH Engineering Section decides to develop water licensing regulation changes, the proposed regulations will be required to follow administrative procedures of regulation proposal, open comment period, and Board of Health approval. Changes in training course length will also need lead time for the trainers to implement and modify training calendars. The earliest that changes would possibly be effective would be January 2014 but more likely January 2015.

Mandatory Training Course Schedule

Most Current Listing is at: www.healthy.arkansas.gov/eng/autoupdates/oper/mandtrngall.htm.

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

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

Mandatory Course Name	START DATE	ENDING DATE	Time	CITY	LOCATION	SPONSOR
Basic Water Treatment	01/01/13	01/15/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Water Treatment	01/15/13	01/17/13	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
Basic Water Distribution	01/16/13	01/31/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Math	01/22/13	01/22/13	8:00 AM	Clarksville	CLW (Operations Bldg) 710 East Main (Hwy 64 East)	ARWA
ADH Compliance	01/23/13	01/23/13	8:00 AM	Clarksville	CLW (Operations Bldg) 710 East Main (Hwy 64 East)	ADH
Applied Math	01/24/13	01/24/13	8:00 AM	Clarksville	CLW (Operations Bldg) 710 East Main (Hwy 64 East)	ARWA
Basic Distribution	01/29/13	01/31/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Intermediate Water Distribution	01/29/13	01/31/13	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Intermediate Water Treatment	02/01/13	02/14/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Treatment	02/05/13	02/07/13	8:00 AM	Arkadelphia	Recreation Center, 2555 Twin Rivers Dr.	ARWA
Basic Water Math	02/05/13	02/05/13	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
Applied Water Math	02/06/13	02/06/13	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
PWS Compliance	02/07/13	02/07/13	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	ADH
Intermediate Water Distribution	02/14/13	02/28/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Math	02/19/13	02/19/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Intermediate Water Treatment	02/19/13	02/21/13	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	AETA
Applied Math	02/20/13	02/20/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
ADH Compliance	02/21/13	02/21/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ADH
Basic Water Math	02/26/13	02/26/13	8:00 AM	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	AETA
Applied Water Math	02/27/13	02/27/13	8:00 AM	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	AETA
PWS Compliance	02/28/13	02/28/13	8:00 AM	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	ADH
Advanced Water Treatment	03/01/13	03/15/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Advanced Treatment	03/05/13	03/07/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Intermediate Water Treatment	03/05/13	03/07/13	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
Basic Water Math (Night Class)	03/11/13	03/14/13	8:00 AM	Fort Smith	Fort Smith Utilities, 3900 Kelly Hwy	AETA
Basic Water Distribution	03/12/13	03/14/13	8:00 AM	Paragould	Holiday Inn Express, 3502 Linwood Dr	AETA
Basic Math	03/12/13	03/12/13	8:00 AM	Nashville	Carter Day Center, 200 Nichols Drive	ARWA
ADH Compliance	03/13/13	03/13/13	8:00 AM	Nashville	Carter Day Center, 200 Nichols Drive	ADH
Applied Math	03/14/13	03/14/13	8:00 AM	Nashville	Carter Day Center, 200 Nichols Drive	ARWA
Advanced Water Distribution	03/15/13	03/30/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Applied Water Math (Night Class)	03/18/13	03/21/13	8:00 AM	Fort Smith	Fort Smith Utilities, 3900 Kelly Hwy	AETA
Basic Distribution	03/19/13	03/21/13	8:00 AM	Clarksville	CLW (Operations Bldg) 710 East Main (Hwy 64 East)	ARWA
Basic Water Math	03/26/13	03/26/13	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Intermediate Distribution	03/26/13	03/28/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Applied Water Math	03/27/13	03/27/13	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
PWS Compliance	03/28/13	03/28/13	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	ADH
Basic Water Math	04/01/13	04/15/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Advanced Water Distribution	04/02/13	04/04/13	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Basic Water Treatment (Night Class)	04/08/13	04/23/13	8:00 AM	Fort Smith	Fort Smith Utilities, 3900 Kelly Hwy	AETA
Basic Water Distribution	04/09/13	04/11/13	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
Basic Water Distribution (Night Class)	04/15/13	04/19/13	8:00 AM	Osceola	Osceola-Plum Point Energy Station	AETA
Applied Water Math	04/15/13	04/30/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Math	04/23/13	04/23/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Applied Math	04/24/13	04/24/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
ADH Compliance	04/25/13	04/25/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ADH
Basic Water Math (AWW&WEA Conf)	04/29/13	04/29/13	8:00 AM	Hot Springs	AWW&WEA Conf, HS Convention Center	AETA
PWS Compliance (AWW&WEA Conf)	04/30/13	04/30/13	8:00 AM	Hot Springs	AWW&WEA Conf, HS Convention Center	ADH
Applied Water Math (AWW&WEA Conf)	04/30/13	04/30/13	8:00 AM	Hot Springs	AWW&WEA Conf, HS Convention Center	AETA
Intermediate Treatment	04/30/13	05/02/13	8:00 AM	Arkadelphia	Recreation Center, 2555 Twin Rivers Dr.	ARWA
Basic Water Treatment	05/01/13	05/15/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Intermediate Water Distribution	05/07/13	05/09/13	8:00 AM	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	AETA
Advanced Distribution	05/07/13	05/09/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Basic Water Distribution	05/15/13	05/30/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA

Mandatory Course Name	START DATE	ENDING DATE	Time	CITY	LOCATION	SPONSOR
Basic Water Treatment (Night Class)	05/20/13	05/24/13	8:00 AM	Osceola	Osceola-Plum Point Energy Station	AETA
Intermediate Distribution	05/21/13	05/23/13	8:00 AM	Clarksville	CLW (Operations Bldg) 710 East Main (Hwy 64 East)	ARWA
Basic Water Math	05/28/13	05/28/13	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	AETA
Applied Water Math	05/29/13	05/29/13	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	AETA
PWS Compliance	05/30/13	05/30/13	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	ADH
Intermediate Water Treatment	06/01/13	06/15/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Water Distribution (Night Class)	06/03/13	06/20/13	8:00 AM	Fort Smith	Fort Smith Utilities, 3900 Kelly Hwy	AETA
Advanced Water Treatment	06/04/13	06/06/13	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Basic Distribution	06/04/13	06/06/13	8:00 AM	Bono	Bono Community Center, 100 Woodland Trail	ARWA
Basic Math	06/11/13	06/11/13	8:00 AM	Mt. Home	Charles R Newton Emer Serv Trng Center, Midway	ARWA
Basic Water Distribution	06/11/13	06/13/13	8:00 AM	Camden	AR Env Training Academy, 100 Carr Road	AETA
ADH Compliance	06/12/13	06/12/13	8:00 AM	Mt. Home	Charles R Newton Emer Serv Trng Center, Midway	ADH
Applied Math	06/13/13	06/13/13	8:00 AM	Mt. Home	Charles R Newton Emer Serv Trng Center, Midway	ARWA
Intermediate Water Distribution	06/15/13	06/30/15	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Treatment	06/18/13	06/20/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Advanced Water Treatment	07/01/13	07/15/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Water Treatment	07/09/13	07/11/13	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Advanced Treatment	07/09/13	07/11/13	8:00 AM	Arkadelphia	Recreation Center, 2555 Twin Rivers Dr.	ARWA
Advanced Water Distribution	07/15/13	07/30/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Intermediate Distribution	07/16/13	07/18/13	8:00 AM	Bono	Bono Community Center, 100 Woodland Trail	ARWA
Intermediate Treatment	07/23/13	07/25/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Basic Water Distribution	07/23/13	07/25/13	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	AETA
Intermediate Water Treatment	07/30/13	08/01/13	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
Basic Water Math	08/01/13	08/15/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Distribution	08/06/13	08/08/13	8:00 AM	Mt. Home	Charles R Newton Emer Serv Trng Center, Midway	ARWA
Applied Water Math	08/15/13	08/30/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Advanced Water Treatment	08/20/13	08/22/13	8:00 AM	Lowell	Beaver Water Dist, 301 N Primrose Rd	AETA
Advanced Distribution	08/20/13	08/22/13	8:00 AM	Bono	Bono Community Center, 100 Woodland Trail	ARWA
Intermediate Water Distribution	08/20/13	08/22/13	8:00 AM	Fayetteville	Utilities Operations Center, 2435 S Industrial Dr	AETA
Basic Water Treatment	08/27/13	08/29/13	8:00 AM	Paragould	Holiday Inn Express, 3502 Linwood Dr	AETA
Basic Math	08/27/13	08/27/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Applied Math	08/28/13	08/28/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
ADH Compliance	08/29/13	08/29/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ADH
Basic Water Treatment	09/01/13	09/15/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Treatment	09/10/13	09/12/13	8:00 AM	Nashville	Carter Day Center, 200 Nichols Drive	ARWA
Intermediate Water Treatment	09/10/13	09/12/13	8:00 AM	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	AETA
Basic Water Distribution	09/15/13	09/30/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Water Math	09/17/13	09/17/13	8:00 AM	Maumelle	Wastewater Plant Training Rm, 425 B Hyman Drive	AETA
Applied Water Math	09/18/13	09/18/13	8:00 AM	Maumelle	Wastewater Plant Training Rm, 425 B Hyman Drive	AETA
PWS Compliance	09/19/13	09/19/13	8:00 AM	Maumelle	Wastewater Plant Training Rm, 425 B Hyman Drive	ADH
Basic Distribution	09/24/13	09/26/13	8:00 AM	West Fork	Wenzel Community Center, 222 Webber	ARWA
Advanced Water Distribution	09/24/13	09/26/13	8:00 AM	Hot Springs	HS Transportation Depot, 100 Broadway Terrace	AETA
Intermediate Water Treatment	10/01/13	10/15/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Intermediate Distribution	10/08/13	10/10/13	8:00 AM	Mt. Home	Charles R Newton Emer Serv Trng Center, Midway	ARWA
Basic Water Math	10/08/13	10/08/13	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
Applied Water Math	10/09/13	10/09/13	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	AETA
PWS Compliance	10/10/13	10/10/13	8:00 AM	Russellville	Tri-County Water, 5306 N Arkansas Ave	ADH
Intermediate Water Distribution	10/15/13	10/30/13	TBD	Internet	http://www.sautech.edu/admin/escience.aspx	AETA
Basic Math	10/22/13	10/22/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
Intermediate Water Treatment	10/22/13	10/24/13	8:00 AM	N Little Rock	CAW Maryland Complex, 1500 W Maryland Ave	AETA
Applied Math	10/23/13	10/23/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA
ADH Compliance	10/24/13	10/24/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ADH
Advanced Treatment	10/29/13	10/31/13	8:00 AM	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	ARWA

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

JANUARY 2013 – DECEMBER 2013 SCHEDULE

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

Listed below are the dates and locations of examination sessions as scheduled, as of **December 12, 2012**. 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.

DATE	CITY	LOCATION	TIME
1/18/2013	Camden	AR Environmental Training Academy, 100 Carr Road	9:00:00 AM
2/1/2013	N Little Rock	CAW Maryland Complex, 1500 West Maryland Ave	9:00:00 AM
2/1/2013	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00:00 AM
2/8/2013	Arkadelphia	Recreation Center, 2575 Twin Rivers Dr	9:00:00 AM
2/22/2013	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	9:00:00 AM
3/8/2013	Camden	AR Environmental Training Academy, 100 Carr Road	9:00:00 AM
3/8/2013	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00:00 AM
3/15/2013	Paragould	Holiday Inn Express, 3502 Linwood Dr	9:00:00 AM
3/22/2013	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	9:00:00 AM
3/29/2013	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00:00 AM
4/5/2013	N Little Rock	CAW Maryland Complex, 1500 West Maryland Ave	9:00:00 AM
4/12/2013	Russellville	Tri-County Water, 5306 N Arkansas Ave	9:00:00 AM
5/1/2013	Hot Springs	AWW&WEA Annual Conf, HS Convention Center	9:00:00 AM
5/3/2013	Arkadelphia	Recreation Center, 2575 Twin Rivers Dr	9:00:00 AM
5/10/2013	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	9:00:00 AM
5/10/2013	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00:00 AM
5/24/2013	Clarksville	CLW (Operations Bld) 710 East Main (Hwy 64 East)	9:00:00 AM
6/7/2013	Bono	Bono Community Center, 100 Woodland Trail	9:00:00 AM
6/7/2013	N Little Rock	CAW Maryland Complex, 1500 West Maryland Ave	9:00:00 AM
6/14/2013	Camden	AR Environmental Training Academy, 100 Carr Road	9:00:00 AM
6/21/2013	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00:00 AM
7/12/2013	N Little Rock	CAW Maryland Complex, 1500 West Maryland Ave	9:00:00 AM
7/12/2013	Arkadelphia	Recreation Center, 2575 Twin Rivers Dr	9:00:00 AM
7/19/2013	Bono	Bono Community Center, 100 Woodland Trail	9:00:00 AM
7/26/2013	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	9:00:00 AM
7/26/2013	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00:00 AM
8/2/2013	Russellville	Tri-County Water, 5306 N Arkansas Ave	9:00:00 AM
8/9/2013	Mtn Home	Baxter Co OEM Training Facility, 170 Dillard Dr, Midway	9:00:00 AM
8/23/2013	Bono	Bono Community Center, 100 Woodland Trail	9:00:00 AM
8/23/2013	Fayetteville	F'ville Ops Center, 2435 S Industrial Dr (Includes Lowell)	9:00:00 AM
8/30/2013	Paragould	Holiday Inn Express, 3502 Linwood Dr	9:00:00 AM
9/13/2013	Jonesboro	Jonesboro CWL Office Training Rm, 400 E Monroe	9:00:00 AM
9/13/2013	Nashville	Carter Day Center, 200 Nichols Drive	9:00:00 AM
9/27/2013	West Fork	Wenzel Community Center, 222 Webber, West Fork, AR	9:00:00 AM
9/27/2013	Hot Springs	HS Transportation Depot, 100 Broadway Terrace	9:00:00 AM
10/11/2013	Mtn Home	Baxter Co OEM Training Facility, 170 Dillard Dr, Midway	9:00:00 AM
10/25/2013	N Little Rock	CAW Maryland Complex, 1500 West Maryland Ave	9:00:00 AM
11/1/2013	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00:00 AM
11/8/2013	Camden	AR Environmental Training Academy, 100 Carr Road	9:00:00 AM
11/8/2013	Nashville	Carter Day Center, 200 Nichols Drive	9:00:00 AM

11/15/2013	Fayetteville	Fayetteville Operations Center, 2435 S Industrial Dr	9:00:00 AM
11/15/2013	Mtn Home	Baxter Co OEM Training Facility, 170 Dillard Dr, Midway	9:00:00 AM
11/22/2013	Maumelle	Wastewater Plant, 425 B Hyman Drive	9:00:00 AM
11/22/2013	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00:00 AM
12/6/2013	Lonoke	ARWA Training Facility, 240 Dee Dee Ln	9:00:00 AM
12/13/2013	Nashville	Carter Day Center, 200 Nichols Drive	9:00:00 AM
12/20/2013	Camden	AR Environmental Training Academy, 100 Carr Road	9:00:00 AM

The above exam session information is subject to change. You should confirm this information just prior to the scheduled examination period. You may confirm the session or its location by contacting your District Specialist or Engineer at (501) 661-2623. Also, the latest exam schedule information can be viewed on the Internet at: < <http://www.healthy.arkansas.gov/eng/autoupdates/oper/operexam.htm> >.

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 to the exam proctor.

New CCR Delivery Method May Offer Money Savings to Water Systems

Teresa Lee, PE, Engineer Supervisor

Beginning in 2013 Arkansas water systems may be able to distribute their Consumer Confidence Reports (CCR) to customers by electronic delivery. This method may eliminate the need to mail a copy to each customer or place the CCR in a local newspaper resulting in monetary and environmental savings.

The purpose of the Consumer Confidence Report is to give customers information regarding their drinking water, including the water source, contaminants detected in finished water, and the health effects of contaminants when violations occur. By better understanding of their drinking water supply, customers, especially those with special health needs, can make informed decisions regarding their use of drinking water.

Each year the Engineering Section prepares over 700 CCRs for our community water systems. Our staff provides a copy of the completed CCR to the system as either a Word document or a PDF file. We have recently placed the 2011 CCRs on our website HealthyArkansas.gov and will place the 2012 CCRs in the same location when they are available. An individual URL that navigates to the system's CCR will be provided to each water system.

For the 2012 CCRs, we are proposing an alternate electronic delivery method for water systems that meet the following requirements:

- The water system must be free of violations for the 2012 calendar year.
- Documentation must be provided that the service area is served by at least one internet service provider.
- Notification that the CCR is available on a website must be provided to each customer in writing, either as an insert or printed on the water bill. The water system must provide a direct URL to the CCR. A URL that navigates to a webpage that requires the customer to search for the CCR does not meet the "directly deliver" requirement of the CCR Rule. The water system may use its own website or the one provided by the Health Department. The notice must state that the customer can receive a paper CCR upon request, and it must appear in more than one billing cycle.
- Documentation of the water bill or notification that was delivered to the customers must be delivered to our office.
- If the water system is aware that its customers are unable to receive CCRs electronically, it must provide a paper CCR using one of the traditional delivery methods.

The Engineering Section will notify each water system of their CCR delivery options based on the system's compliance history. For questions, please contact Doug Dawson or Tyrone Tidwell at (501) 661-2623.

FREE WATER EXAM STUDY MANUALS To Eligible Systems

Martin Nutt, Licensing and Certification Officer

The Arkansas Department of Health, utilizing EPA Operator Certification Training Funds, will continue to provide free replacement or additional exam study manuals. Systems eligible are all Community Public Water Systems or Non-Community Non-Transient Public Water Systems that serve a retail population of fewer than 3300 persons. The Operator Certification Training Funds provided all the above grant eligible water systems with a complete set of reference manuals in December 2003, see list of the provided manuals below.

If a grant eligible system needs a free replacement or additional set of manuals, please contact the Water Operator Licensing Program by phone at: (501) 661-2623 or by email at: martin.nutt@arkansas.gov to start the simple straight forward process to receive.

Reference Manuals Provided OpCert Fund 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
Utility Management, by CSU Sacramento	\$29.00
Manage For Success: Effective Utility Management Practices, by CSUS	\$49.00
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

ATTENTION: OPCERT TRAINING FUND EXPIRED

Travel assistance funds, which has helped small system operators with travel and registration cost expired December 31, 2012.

Arkansas Water Works & Water Environment Association

Annual Conference and Short School

April 28 to May 1, 2012

Hot Springs Convention Center

Hot Springs, Arkansas

www.awwwea.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 consists of two full days of training with six sessions each day providing 12 concurrent training topics per session. The exhibit hall Sunday afternoon through Tuesday morning will have water industry related companies displaying their products.

The Conference will be tracking 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 and afternoon to receive full credit.

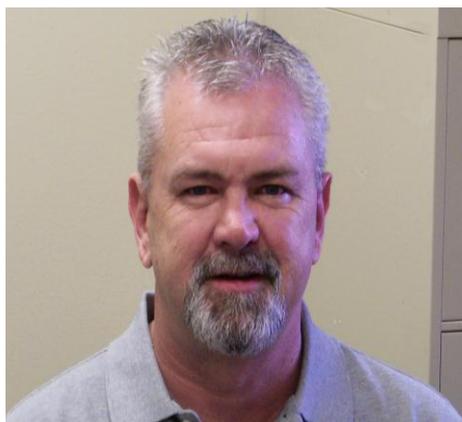
If you are working on Mandatory Training courses for exam purposes, the conference offers the Basic Water Math course on Monday and either the Applied Water Math course or the ADH Public Water System Compliance course on Tuesday. You must register for the conference to attend the courses. They begin at 8:00 each morning and end at 5:00 each afternoon, with a shortened lunch break. Attendance of the entire course is required to receive a course completion certificate.

Major Monitoring, MCL, Treatment Technique, & Licensing Violations

AMITY WATERWORKS	DBPR 7,8,9	MONTROSE WATERWORKS	Bmon 8
ARK ST PARK-QUEEN WILHELMENA	DBPR 7,8,9	MORNING STAR WATER ASSN	FMCL 7,8,9
ARK ST PARK-MT. MAGAZINE	DBPR 7,8,9	MT SHERMAN WATER ASSN	RMCL 7,8,9
BEDFORD FALLS MHP	Bmon 9	MT ZION WATER ASSN	Bmon 8
BEN LOMOND WATERWORKS	Bmon 7,9	NORTH GARLAND CO REG WATER DIST	BMCL 9
BEN LOMOND WATERWORKS	OperLic 7	NAIL-SWAIM WATER ASSN	FMCL 7,8,9
BEULAH GROVE WATER	OperLic 7,8,9	OZAN CREEK WATER ASSN	DBPR 7,8,9
BEULAH GROVE WATER	Bmon 7,8	PYATT WATERWORKS	Bmon 9
BLACK OAK WATERWORKS	GWRmon 9	RATCLIFF WATERWORK S	DBPR 7,8,9
BLUE MOUNTAIN WATERWORKS	DBPR 7,8,9	SDM WATER ASSN	RMCL 7,8,9
BODCAW RURAL WATER	DBPR 7,8,9	SDM WATER ASSN	FMCL 7,8,9
BOYDELL WATER ASSOCIATION	GWRmon 9	SEVIER COUNTY WATER ASSN	DBPR 7,8,9
BOYDELL WATER ASSOCIATION	BMCL 8,9	SOUTH LOGAN COUNTY WATER	DBPRE 7,8,9
BRANCH WATERWORKS	DBPR 7,8,9	SOUTH MOUNTAIN WATER	RMCL 7,8,9
BRECKENRIDGE UNION WATER	Bmon 8	SOUTH MOUNTAIN WATER	Bmon 8
BRUNO PYATT SCHOOL	Bmon 9	SOUTH PIKE COUNTY WATER	Bmon 7
CHARLESTON WATER	DBPR 7,8,9	TWIN OAKS MHP	Bmon 9
CHERRY VALLEY WATER	Bmon 7	VANDERVORT WATERWORKS	Bmon 8
CUSHMAN WATER SYSTEM	Bmon 8	VICTORIA WATER ASSN	GWRmon 9
DANVILLE WATERWORKS	DBPR 7,8,9	VICTORIA WATER ASSN	BMCL 9
DENNING WATERWORKS	Bmon 9	WALKER WATER ASSN	OperLic 8
EAST NEWTON COUNTY WATER	Bmon 7	WARD MHP	Bmon 9
FELSENTHAL WATER ASSN	Bmon 8	WATSON WATERWORKS	DBPR 7,8,9
FRENCHPORT WATER ASSN	Bmon 8	WIEDERKEHR VILLAGE WATER	Bmon 9
GREENWOOD WATERWORKS	DBPR 7,8,9	WILTON WATERWORKS	Bmon 7
HICKORY RIDGE WATERWORKS	Bmon 9		
HOSANNA HEIGHTS WATER	Bmon 7		
HOSANNA HEIGHTS WATER	GWRmon 8		
JAMES FORK REDIONAL WATER	DBPR 7,8,9		
LUXORA WATERWORKS	DBPR 7		
MAGAZINE WATERWORKS	DBPR 7,8,9		
MILLTOWN-WASHBURN WATER	DBPR 7,8,9		
MILLWOOD WATER CORP	Bmon 7		
MONTROSE WATERWORKS	BMCL 7		

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; 7 = July 2012, 8 = August 2012, 9 = September 2012

STAFF NEWS:



Dennis Mitchell has joined the Engineering Section, as an Engineer Technician. Dennis will be working in the sample collection program and will primarily work in south Arkansas. His duties will consist of collection of SDWA compliance samples for community, non-community, and transient public water systems. Dennis previously worked for the City of Beatrice, NE as a Chief Building Inspector.

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 October 10, 2012 in Lonoke, Arkansas. Committee members present were: Terry House, Committee Chair, Grand Prairie Bayou Two PFB; Susan Merideth, P.E., Committee Chair Elect, Jonesboro City Water and Light; Tim Shaw, Community Water System; Matthew Dunn, P.E., Crist Engineers, Inc.; Stacy Cheevers, Beaver Water District; and Jeff Stone, P.E., Executive Secretary, Arkansas Department of Health (ADH). Findlay Edwards, P.E., University of Arkansas was absent. ADH staff & guests present were: Reginald Rogers, Attorney, ADH; Martin Nutt, Training and Certification Officer, ADH; Ida Hampton, Administrative Specialist, ADH; Alicia Prioleau, Training Coordinator, ADH; Jeremy Rowe, Arkansas Environmental Training Academy (AETA); Dennis Sternberg, AR Rural Water Association (ARWA); Jim Julian and Kenneth Rosson, City of Mulberry.

Standing Business

The Committee reviewed and approved the minutes from the July 16, 2012 meeting. The Committee reviewed the High School Waiver request from Rosson. The application was for a Grade I Distribution License. Rosson is an employee of the Mulberry Water System, the system requires a Grade I Distribution License and a Grade II Treatment License. Nutt noted Rosson, system operator and Julian, Mulberry Public Works Director were present. The Committee reviewed the High School Wavier request, received information from Julian as to the City's reasons for hiring Rosson and requesting the waiver. The Committee asked questions concerning Mr. Rosson obtaining his GED. Mr. Rosson stated he wants to obtain his GED to accomplish his goals and had already started his GED Program. The Committee discussed with Mr. Rosson the ramifications of limiting the license grade and type, and the need to get a GED to advance to a higher license grade or Treatment License. Dunn motioned to grant a High School Wavier limited to a Distribution I License and the need to obtain a GED should another license be required or desired. Cheever seconded the motion. The Committee approved the High School Diploma Wavier confirming the limitation to a Distribution I.

Nutt stated the OpCert Operator Training Grant would expire on December 31, 2012. The ADH has identified EPA SRF Capitalization Grant Set Aside funds to use to continue funding the cost of providing the mandatory courses through June 30, 2014. Nutt stated the SRF funds would fund up to four courses per month (two courses per training provider) during this time. The funds will not support the other funding areas of the OpCert Grant. Operator travel costs being the most significant cost not funded. Nutt supplied a handout to the Committee concerning EPA OpCert Expense Reimbursement Grant Spending History. Nutt stated he has permission from EPA to replace two projectors, two laptops and a CD Duplicator. Nutt indicated the duplicator replaces an old unit used to produce the license program information CD provided to water operators and water systems. EPA has also given permission to buy a large supply of exam manuals to continue to provide grant eligible system (3300 or less population systems) needed manual sets for at least another year. Nutt indicated that if the trainers have good class attendance, in their remaining grant funded courses, the grant would be spent before it expires.

Old Business

Stone provided the Committee an update on the fluoridation mandate's implementation, since the last committee meeting, two Water Systems have initiated fluoridation, and two or three Water Systems completed their review and approvals of construction plans after being awarded the grant. Stone stated he is hopeful by the end of the year (2012) two or three more Water Systems will initiate fluoridation. He stated most Water Systems required to fluoridate have engaged in the process of fluoridation. Stone stated four Water Systems received informational letters for not taken any known steps to engage in the process of fluoridation and advised to engage by December 1, 2012.

Nutt updated the Committee concerning the SFY 2013 Association of Boards of Certification contract. Nutt stated ABC will no longer support Arkansas customized exam as valid but will support ABC provided individual exam items as valid, this exposes the ADH to defending the overall exam's validity. Nutt also stated that the new contract had a significant cost increase and several exam-printing limitations that will affect the examination process after June 30, 2014.

Nutt reported the Mandatory Training and Examination Workgroup had met twice since the Committee's last meeting, that the workgroup had reached consensus on several changes, and provided a handout detailing the workgroup's suggested changes. The workgroup suggested changes in the math courses, adding another day to several courses, require courses be taken in a particular order, and adding the Advanced Distribution course to the course

requirements for Distribution III license. The Committee discussed implementation timeframes and ability to implement the additional training requirements. Stone indicated the process of physically changing the regulations would take up to a year. He also indicated he would like to seek wider stakeholder input and comments before proposing a regulation change. Sternberg indicated ARWA needed lead time after the finalized regulations to incorporate the training changes into the course curriculum and yearly training calendar. Stone indicated with all the steps needed to implement, a January 2014 implementation was very optimistic with January 1, 2015 looking more feasible, if changes were pursued. The Committee approved a motion to accept the workgroups proposed changes and request the Engineering Section address the proposed changes. Stone indicated the Section would begin seeking wider stakeholder input. Please see related article titled “Comments Sought – Water Licensing Regulations Revisions” for additional details on changes being considered.

New Business

The Committee received, reviewed and accepted two annual reports provided to the USEPA. The first report titled “EPA Operator Certification Guidelines Report” which addressed the Operator Licensing Program’s compliance with the EPA Operator Certification Guidelines. The second report titled “EPA Expense Reimbursement Grant Annual Report” documents the Section’s efforts to spend the training grant within allowed reimbursable cost. The report detailed operator participation in provided training and the associated cost to conduct the training sessions.

Nutt, noting the above Committee action addressing changes in the mandatory training requirements, if implemented, would require revisions to the “Rules and Regulations Pertaining to Water Operator Licensing”, requested the Committee review the regulations for other changes and clarifications that might need to be addressed.

Committee Reports

Stone reported Engineering was having noticeable changes in staffing the last quarter; Christine Kirkendoll left the program. She was very effective in helping water systems control disinfection-by-products and regain compliance. Aaron Hilborn, presently District 5 Engineer is transferring to the position and has considerable topic knowledge. Linda Taylor is the new District 2 Engineer who has great experience in the drinking water regulation from the Alaska Drinking Water Program. In a cost cutting, staff utilization move, one administrative staff position will not be filled when vacated due to retirement.

Stone reported that Engineering had a Data Audit conducted by EPA and its contractor in September. The audit focused on nonfinancial data processing. The audit’s purpose is to measure the adequacy of the Section’s implementation of the SDWA. Stone stated he has a draft of the report and the Section received mostly positive responses. Stone stated, when the final report is available, he will provide it to the Committee and post it to the website for interested parties.

Nutt provided a Licensing Program report. He provided a spreadsheet handout titled Water License Exam Report to the Committee; he pointed out where the present exams scoring performance was shown on the spreadsheet and where to compare those results with the previous exam version and overall exam performance. He noted the continued troubling performance of the upper license grades, which, in part, led to the above discussion on changes in mandatory training. He reviewed a summary of compliance enforcement efforts taken by the Section. He concluded his report by noting the program was fully staffed and processing exam results and license applications very timely.

Rowe provided the Arkansas Environmental Training Academy Report. He reported AETA has started construction on a new environmental training lab. It is primarily a wet lab for Backflow courses; noted hands on instruction will occur for Water, Wastewater, and Environmental Health and Safety courses in the Lab. Rowe stated the expansion also includes two additional traditional classrooms, which will allow all five Academy programs to train on Campus at the same time. He noted, the construction contract calls for completion in six months, weather permitting.

Sternberg provided the Arkansas Rural Water Association Report. He stated since January 1, 2012; ARWA has had 798 attendees attending classes in different areas of the State. Sternberg reported ARWA got funding on September 1, 2012 from EPA; for an EPA Training position, he indicated it may only last for one year and was considerable less money than in previous years, but is thankful concerning any grant money received.

The Committee changed its normal meeting date to the second Thursday of the first month of each quarter and confirmed their next meeting date for October 10, 2012. The Committee received an adjournment motion and adjourned.

Water Operator Licenses Issued

June 1, 2012 through August 31, 2012

LICENSEE NAME	GRADE/TYPE	WATER SYSTEM NAME
BELL MAURICE	D - I	PENDLETON-PEA RIDGE WATER ASSN
BOND JAMES	T - II	NAT CTR FOR TOXOLOGICAL RES
BOWMAN SABRINA	D - IV	BEAVER WATER DISTRICT
CANNON TIMOTHY	T - III	HOT SPRINGS UTILITIES
CHEEK JULIE	T - IV	SYSTEM NOT PROVIDED
COLSTON EMORY	T - IV	NASHVILLE WATERWORKS
COSSEY RANDY	D - III	CITY CORPORATION
COWGILL JAMEY	D - IV	BRUNNER HILL WATER ASSOC
CROSLIN MIKE	D - IV	FORT SMITH WATER UTILITIES
DAGESTAD SEAN	D - IV	ROGERS WATER UTILITIES
DAVIS SEAN	D - IV	HUNTSVILLE WATERWORKS
DYE RAYMOND	T - II	SEARCY WATERWORKS
EARLEY ROBERT	T - IV	JONESBORO WATER SYSTEM
EOFF WILLIAM	D - IV	GRAVETTE WATERWORKS
ESTEP II ROY	T - IV	USFS LAKE WEDINGTON, USFS SHORES LAKE, & USFS WHITE ROCK
FIELDER GREGORY	D - III	WOOSTER WATERWORKS
FOUTS RHONDA	T - IV	FORT SMITH WATER UTILITIES
GARDNER MICHAEL	D - IV	COMMUNITY WATER SYSTEM
GARRETT NICHOLAS	D - II	ALMA WATERWORKS
GOODMAN KEVIN	D - I	HARRISON WATERWORKS
GRAY MICHAEL	D - I	NORTH CROSSETT UTILITIES NORTH EAST CROSSETT WATER ASSN
GREEN JOSHUA	D - IV & T - IV	JONESBORO WATER SYSTEM
HALLER BRETT	D - III	MILLTOWN-WASHBURN WATER USERS
HALMES TIMOTHY	D - II	WATALULA WATER ASSOCIATION
HAWKINS TIMOTHY	D - I	TONTITOWN WATERWORKS
HERRON HARRY	D - I	ASH FLAT WATER COMPANY
HICKS CRAIG	D - IV	WEST STONE COUNTY WATER ASSN
HILTON DANIEL	D - IV	HOPE WATER LIGHT COMM
HOWELL CODY	T - I	HOT SPRINGS UTILITIES
JAMES CHARLES	D - II	GOULD MUNICIPAL WATER-SEWER
JONES JOSHUA	T - I	MARION COUNTY REG WATER DIST
KELLEY JIM	T - II	LONOKE WATERWORKS
LAIRD JUSTIN	D - III	FAYETTEVILLE WATERWORKS
LEMONS DANIEL	D - IV	ARKADELPHIA WATERWORKS
LILES JIMMY	D - IV	REDFIELD WATERWORKS
LUTZ MARK	D - I	BEEBE WATERWORKS
MEYER DUDLEY	D - I	OPPELO WATER DEPARTMENT
MORGAN GARY	D - I & T - II	PORTLAND WATERWORKS
PAGE CLIFFORD	D - I	TAYLOR WATERWORKS
PRICE BILLY	D - II	LAWRENCE CO REG WATER DIST
RAY ERIK	D - II	LOST BRIDGE VILL WAT-SEW DIST
RICE ROBIN	D - I	SYSTEM NOT PROVIDED
RILEY MIKESHELL	D - I	SYSTEM NOT PROVIDED
ROBINSON ANDREW	D - IV	ROGERS WATER UTILITIES
ROE BILLY	T - II	ARSENAL WATER SYSTEM
ROMINE DAVID	T - IV	PARAGOULD CITY LIGHT WATER
SCHIMMEL NATHAN	D - IV & T - IV	JONESBORO WATER SYSTEM
SHORT KYLE	T - I	NAT CTR FOR TOXOLOGICAL RES
SIMKINS VERNON	T - III	POCAHONTAS WATERWORKS
STANFORD WILLIAM	D - IV & T - IV	CROWLEYS RIDGE WATER ASSOC
STIVERS THOMAS	D - I	CARLISLE WATERWORKS
THOMPSON TONYA	D - I	ST FRANCIS RIVER REG WATER DD
WEIGE JAY	T - IV	N GARLAND CO REG WATER DIST
WHITEHEAD JEFFERY	D - IV	MOUNTAIN HOME WATERWORKS
WILES CHARLES	D - IV	CHEROKEE VILLAGE WATER ASSOC

Return Service Requested

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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>January 2013</u>				
3	5:00 PM	Jacksonville	Community Center	Central District, AWW&WEA
3	5:30 PM	Fort Smith	Golden Corral	Western District, AWW&WEA
9	8:30 AM	Bella Vista	Bella Vista WWTP	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	Hickory Ridge	TBD	Eastern District, AWW&WEA
15	6:00 PM	Monticello	Western Sizzlin	Southeast District, AWW&WEA
TBD				Northeast District, AWW&WEA
24	5:30 PM	Texarkanna	The Arts Building	Southwest District, AWW&WEA
<u>February 2013</u>				
7	5:00 PM	Benton	Brown's Restaurant	Central District, AWW&WEA
7	5:30 PM	Fort Smith	Golden Corral	Western District, AWW&WEA
13	8:30 AM	Decatur	Municipal Building	Northwest District, AWW&WEA
14	5:30 PM	Wynne	Kelly's Restaurant	Eastern District, AWW&WEA
14	5:00 PM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
14	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	North Central District, AWW&WEA
TBD				Northeast District, AWW&WEA
19	6:00 PM	Monticello	Cowboys	Southeast District, AWW&WEA
28	5:30 PM	Nashville	Carter Training Center	Southwest District, AWW&WEA
<u>March 2013</u>				
7	5:30 PM	Fort Smith	Golden Corral	Western District, AWW&WEA
7	5:00 PM	Jacksonville	Jacksonville Wastewater Plant	Central District, AWW&WEA
12	6:00 PM	Crossett	Country Vittles	Southeast District, AWW&WEA
13	8:30 AM	Rogers	Southside CofC Family Life Ctr	Northwest District, AWW&WEA
14	5:00 PM	Russellville	Western Sizzlin	AR Valley District, AWW&WEA
14	5:00 PM	Pleasant Plains	Tadpole's Catfish Barn	North Central District, AWW&WEA
14	5:30 PM	Forrest City	TBD	Eastern District, AWW&WEA
TBD				Northeast District, AWW&WEA
28	5:30 PM	Camden	TBD	Southwest District, AWW&WEA