



Kentucky Rural Water Association

Helping water and wastewater utilities help themselves

September 29, 2014

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PUBLIC SERVICE
COMMISSION

Mr. Jeff Derouen, Executive Director
Public Service Commission
P. O. Box 615
Frankfort, KY 40602-0615

Dear Mr. Derouen:

Case No. 2014-00352

Kentucky Rural Water Association will present a training session for the Oldham County Water District On November 5-6, 2014. This session will be held at the Oldham Co. Parks & Recreation Department in LaGrange, Kentucky, and will offer seven (7) hours on Day One and six (6) hours on Day Two for a maximum of 13 hours of continuing education credit.

Please find enclosed a training summary/timed agenda for this class which includes a description of the topics and speaker information. This class has also been submitted to the Kentucky Board of Certification of Water Treatment & Distribution System Operators. A copy of the application is included.

With this letter and enclosures, Kentucky Rural Water Association respectfully requests that this training be approved for continuing education credit for commissioners as referenced in regulation 807 KAR 5:070. If additional information is needed, please do not hesitate to contact our office.

Sincerely,

Janet Cole
Education Coordinator
j.cole@krwa.org

Enclosures
(Original and 10 packets)

Training Sponsor: Kentucky Rural Water Association
Session Title: Oldham County Water District Training
Date: November 5-6, 2014
Location: Oldham County Parks and Recreation, LaGrange, KY

Learning Objective:

The objective of this session is to provide useful information to attendees to help them better perform their roles as drinking water and wastewater operators and enhance the operations at their facilities.

Criteria for Training Credits:

Attendees will be granted credit for actual time attending the sessions. The maximum number of continuing education credit hours on Day One will be seven (7) hours for drinking water and six (6) for wastewater. Day Two will offer six (6) hours for both drinking water and wastewater. Total hours that can be earned at this session will not exceed thirteen hours for water and twelve hours for wastewater.

TRAINING SUMMARY/TIMED AGENDA

DAY ONE – November 5, 2014

8:00 a.m. – 9:00 a.m. **1 hour** **DW/WW**

Session 1: Ice Pigging—Cleaning Distribution and Collection System Lines with Ice
Presenter: Landon Hutchinson, Utility Service Company

This session covers a new technique for cleaning drinking water distribution systems and wastewater force mains using slush ice which is called Ice Pigging. Ice Pigging has been proven to be between 100 and 1000 times more effective at removing sediment and biofilm than standard flushing practices alone. Originally developed for the food industry ice pigging has now been developed for use in the drinking water and wastewater industry

9:00 a.m. – 10:00 a.m. **1 hour** **DW**

Session 2: Boil Water Advisories
Presenter: Charlie Roth, Kentucky Division of Water

This session will cover boil water advisories and other consumer notifications. It is often the case that water utilities do not understand when to and when not to issue boil water advisories (BWAs). This can lead to situations where BWAs are issued too often or not often enough. This class will go over BWAs, when they are to be used and when not, some scenarios to help clarify their use, and other notifications that may be appropriate in place of BWAs.

10:00 a.m. – 12:00 p.m. **2 hours** **DW/WW**

Session 3: Valves for Water and Wastewater Utilities
Presenter: Tony Omohundro, Mueller Co.

This session will cover a variety of valves which can be used in water and wastewater applications. Topics will include gate valves, check valves, plug valves, butterfly valves and other types of valves, their designs, where each can and cannot be used within treatment plants and distribution/collections systems, installation, maintenance, costs, etc.

Lunch: 12:00 p.m. – 12:30 p.m.

12:30 p.m. – 2:30 p.m. **2 hours** **DW/WW**

Session 4: Laboratory Analysis for Water and Wastewater
Presenter: Shayna Lawrence, Hach Company

This session will cover a number of analyses typically performed by water and wastewater operators in the treatment plants and distribution/collection systems. Topics will include the methods for running the analyses, how the analytical equipment operates, calibrations, and steps involved for completion of the analyses. Also included will be the proper care and cleaning of laboratory analytical equipment and associated hardware.

2:30 p.m. – 3:30 p.m. **1 hour** **DW/WW**

Session 5: The Clean Water Act and the Safe Drinking Water Act
Presenter: Randall Kelley, Kentucky Rural Water Association

The Clean Water Act and the Safe Drinking Water Act are the regulatory foundation of the water and wastewater industry. This session provides an overview of the two acts, their histories, what the acts cover, and how the two acts interact with each other. Finally, how these two acts affect both water and wastewater utilities will be covered.

DAY TWO – November 6, 2014**8:00 a.m. – 10:00 a.m.****2 hours****DW/WW****Session 1: Disinfection****Presenter: Dell Harris, Kentucky Rural Water Association**

There are several methods available for disinfection of drinking water and wastewater and each method has advantages and disadvantages. This session will cover various methods for disinfecting drinking water including chlorine, chloramines, UV, chlorine dioxide, and ozone. The pros and cons of each type of disinfection will be discussed.

10:00 a.m. – 11:00 a.m.**1 hour****DW/WW****Session 2: Line Location****Presenter: Dell Harris, Kentucky Rural Water Association**

Water and wastewater utilities frequently have to locate buried lines. Whether a utility is looking for its own lines or trying to avoid another's, accurate line location is of paramount importance. This session will cover the methods, techniques, and equipment used in line location.

Lunch: 11:00 a.m. – 11:30 a.m.**11:30 a.m. – 2:30 p.m.****3 hours****DW/WW****Session 2: Source Water Protection****Presenter: Jack Stickney, Kentucky Rural Water Association**

Source water protection is one of the important concerns of drinking water and wastewater operators and utilities. The Groundwater Protection Plan Regulation, 401 KAR 5:037, requires anyone who conducts an activity having the potential to pollute groundwater to develop a Groundwater Protection Plan (GPP). A Groundwater Protection Plan identifies the activities being conducted at a site that have the potential to pollute groundwater and states the practices that will be used to prevent groundwater pollution. Section 2 of the regulation identifies the activities that require a GPP. Since both wastewater treatment and drinking water treatment plants often are permitted dischargers under the KPDES, may conduct some or all the activities that are required to have a GPP. This session will focus on source water protection. Topics covered will include:

1. Basic Kentucky geology, and how this impacts groundwater and source water protection
2. Regulatory requirements for wastewater and drinking water utilities under 401 KAR 5:037
3. Threats to ground water and source water
4. Recent events affecting Kentucky ground water

Speaker Bios:

P. Landon Hutchison with Utility Service Company holds a BS and BA from Georgetown College in the fields of History, Chemistry, and American Studies. He has worked in the environmental industry for 15 years. Landon spent as a specialty chemical and water chemist for Tyco International, 5 years in various roles with Veolia Environment in solid waste, water, and wastewater, and most recently as a Water systems Consultant for Utility Service Company. He has specific expertise in Holistic Water System Approach, Ice Pigging, TRS, Smart Metering, Mixing Technology, Helium Leak Detection, and various other water/wastewater related technologies.

Charlie Roth started with Division of Water in 1983 in Water Quality Branch in Frankfort: Aquatic Biologist, Biomonitoring. From 2001-2007 he worked as Inspector at Louisville Regional Office; from 2007-Present he has served as Supervisor of Louisville Regional Office. Mr. Roth holds a BA in Biology from Bellarmine University and an MS in Aquatic Ecology from Eastern Kentucky University.

Tony Omohundro, has worked for Mueller Company since January 1, 2003 as a Sales Representative. Tony is a graduate of the University of Kentucky with a B.S. in Mechanical Engineering. In his position as Sales Representative, Tony has provided numerous training sessions throughout the state.

Shayna Lawrence is a Regional Sales Manager for Hach Company. Shayna attended Western Kentucky University before earning her Chemical Engineering degree from the University of Kentucky. Shayna joined the Hach Company as a Regional Sales Manager in early 2011. Previously she has worked for G.E. Water and for ChemTreat, Inc.

Randall Kelley has been with Kentucky Rural Water Association (KRWA) since January, 2006. Since joining KRWA, Randall has held the positions of Wastewater Circuit Rider, ARRA Circuit Rider and Training Specialist. Prior to joining KRWA, Randall worked for the University of Louisville at the Center for Watershed Research as a Research Biologist. He participated in numerous projects on small headwater streams, stream restorations, Tri-halomethane formation in natural waters, and numerous other projects. Randall's experience also includes working for a contractor to the USEPA in Cincinnati, Ohio as an aquatic macroinvertebrate taxonomist. Randall received a B.S. in both Biology and Environmental Science from Western Kentucky University and an M.S. in Biology from the University of Louisville.

Dell Harris joined the Kentucky Rural Water Association in September 1997 as a Circuit Rider. He had nine (9) years experience in the water treatment field beginning in 1988, when he became a water treatment plant operator and acquired Kentucky Class IV-A and Class III-D operator licenses while working for Hardin Co. Water District #1. Mr. Harris went to work for the Hardin County Water District #1 in April 1988 and operated the Pirtle Springs and Muldraugh Water Treatment Plants. He was promoted to Supervisor at the Pirtle Springs facility in July 1991 and obtained his Class IV-A license in April 1992. From September 1993 to September 1994, Dell served as Interim General Manager for the water district. He obtained his Class III-D license in April 1997. Mr. Harris earned an Associate Degree from the Elizabethtown Community College.

Jack Stickney came to Kentucky Rural Water Association in February of 2001. As a Source Water Protection Specialist for KRWA, he writes Source Water and Wellhead Protection Plans for small water utilities throughout Kentucky. He also assists utilities with problems and technical issues that pertain to groundwater resources. Jack earned his Bachelor of Science Degree in Geology in 1979 from Radford University, Radford Virginia, and his Masters Degree in Geology in 1985 from Eastern Kentucky University, Richmond, Kentucky. Jack has over thirty years of work experience in the geologic field including oil drilling, uranium mining, coal, groundwater, and environmental from all over the United States, but primarily in Kentucky. He is a registered Professional Geologist in Kentucky and Alaska.

<p style="text-align: center;">Mail to:</p> <p>Division of Compliance Assistance Certification and Licensing Branch Operator Certification Program 300 Fair Oaks Lane Frankfort, KY 40601</p>	<p>Commonwealth of Kentucky Department for Environmental Protection</p> <p>Application for Approval of Courses for Continuing Education Credit</p> <p><i>Drinking Water Treatment, Drinking Water Distribution, Bottled Water, Wastewater Treatment and Collection System</i></p> <p>Telephone: 1-800-926-8111 www.dca.ky.gov/certification</p>	<p style="text-align: center;"><i>For Official Use Only Do not write in this space</i></p> <p style="text-align: center; font-size: 2em; color: red; font-weight: bold; letter-spacing: 0.5em;">COPY</p>
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I. Course Sponsor Information: **Agency Interest Number:** 108571

A. Sponsoring Organization (school, business, association, etc.):

Kentucky Rural Water Association

Key Contact Person:

Name and Title: **Janet Cole, Education Coordinator**
 Address: **PO Box 1424**
 City, State and Zip: **Bowling Green, KY 42102-1424**
 Phone and Fax: **Ph: 270.843.2291 Fx: 270.796.8623**
 E-mail: **j.cole@krwa.org**
 Web Page: **www.krwa.org**

One-Time Approval Requested Two-Year Approval Requested

B. If individual requesting approval is different than the key contact person for the sponsor, please complete the following information:

Name and Title: _____
 Address: _____
 City, State and Zip: _____
 Phone and Fax: _____
 E-mail: _____

II. General Course Information:

A. Title: **Oldham County Water District-Training**
 B. Location and Date/s: **Oldham County Parks & Recreation, LaGrange, KY** **November 5-6, 2014**
 C. Cost per Student or Group: \$ _____
 D. Delivery Format or Media (check those that apply):

<input checked="" type="checkbox"/> Classroom	<input type="checkbox"/> Web/Online	<input type="checkbox"/> Laboratory	<input type="checkbox"/> Exhibition
<input type="checkbox"/> Field	<input type="checkbox"/> CD-ROM	<input type="checkbox"/> Video/Audio	<input type="checkbox"/> Correspondence
<input type="checkbox"/> Other (Explain)	_____		



E. Continuing Education Credits (**hours**) Requested for Target Audience:

Drinking Water Treatment, Distribution and/or Bottled Water: 13 hrs.
Wastewater Treatment and/or Collection: 12 hrs.

(Attach a detailed description explaining how this training relates to the wastewater treatment process.)

III. Required Items (must be attached to submittal, check off as completed):

- A. Course Learning Objectives
- B. Criteria for Successful Completion by Operators
- C. Agenda (timed with instructors identified and brief description of topics)
- D. Credentials for All Instructors

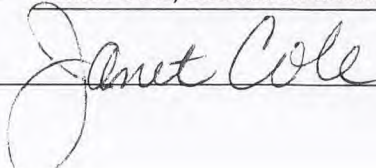
IV. Additional Attachments (required for distance learning courses, optional for other training):

- A. Instructional Design (developed by whom/their credentials)
- B. Curriculum Content (subject matter experts/their credentials)
- C. Required Assignments and/or Examinations (type, passing score, etc.)
- D. Mandatory Time Constraints (deadlines, granting of extensions, etc.)

V. Signature of Sponsor's Contact Person

I confirm that all information provided with this application is accurate to the best of my knowledge. A complete list of attendees and credits to be awarded to them will be forwarded on a "Continuing Education Activity Report" to the Kentucky Division of Compliance Assistance (within 30 days of completing the course when possible).

Printed Name and Title: **Janet Cole, Education Coordinator**

Signature and Date: 

September 29, 2014