



# FYI - Small Systems

Small Systems Committee  
INDIANA SECTION AWWA

FYI - Small Systems

April, 2009

**AWWA SMALL SYSTEMS  
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## FYI

The AWWA Small Systems Committee wishes to express our gratitude to Liz Melvin at IDEM for her involvement on our Committee over the last 6-1/2 years.

Her guidance, insight, and friendship are greatly appreciated and will be missed.

Stepping up to serve on our Committee on IDEM's behalf, is Mary Hollingsworth, Section Chief for Permits, Operator Certifications, and Capacity for the Drinking Water Branch. Please help us welcome her!!

In addition to the Small Systems Committee members who have previously served and have volunteered to continue their tenure on the SSC, we welcome four new members – David Vavrek, Stacy Sagar, Michael Ward, and Deron Allen.

A new initiative of the Small Systems Committee this year – Backflow and Cross Connection Control workshops. We will conduct six of them around the State beginning in September. More details to follow.

We are committed to continuing publication of FYI-Small Systems. In this issue we cover a variety of topics – Ground Water Rule – InWARN -- Ideas to Stretch Your Dollars -- Container Labeling – Warm Weather Tips -- Contact Information for IDEM and others – Upcoming Events and Deadlines.

Please keep in touch with us to let us know how we can better serve you.

## WHAT'S UP WHAT'S NEW - IDEM THE GROUND WATER RULE - WHAT IT MEANS TO YOU

The Environmental Protection Agency (EPA) promulgated the final Ground Water Rule (GWR) in October 2006. The GWR applies to all public water systems that use wells, and sometimes springs, to provide ground water as a drinking water source. Public water system requirements will be affected, including sanitary surveys, source monitoring, corrective actions, treatment, and public notification. The GWR becomes effective December 1, 2009. IDEM is developing rule language where states have flexibility in the implementation of the requirements of the GWR.

As you know, protecting the public health in a public water supply is based on layers of protection from the source to the tap. The GWR works with the total coliform rule (TCR) to detect microbial contamination in drinking water. The GWR detects viral and bacterial contamination in ground water sources of drinking water and is estimated to give a 23 percent increase in protection from waterborne viral illnesses. In order to sample the ground water source a sample tap must be installed before the December 1, 2009, compliance date if one isn't already installed

**Install a sample tap at each wellhead**, if one isn't already installed. The GWR requires a sample to be collected from the source when a total coliform distribution system sample is unsatisfactory (positive). This GWR "triggered" source sample must be collected at each well within 24 hours of receiving an unsatisfactory total coliform distribution system sample, and must be analyzed for a fecal indicator (E.coli). If a sample isn't collected from the source within 24 hours, the system will receive a monitoring violation.



(Continued on page 2)

## FYI FROM THE SECTION CHAIR

I hope you were able to attend the Annual Conference in February, if you were unable to be there you missed a good one. There were 63 individual programs all aimed at providing you with the latest and greatest information. This year's theme was "New Challenges for a New Century" and most of the presentations were designed to help you cope with these new challenges. Several groups of people were responsible for the success of this year's conference. The MAC Committee filled the exhibition area, the Arrangements Committee (Blue Coats) kept everybody headed in the right direction, and the Registration Desks got everybody taken care of efficiently and quickly. My thanks to each and every person that did their best to make the Conference go so well.

Congratulations to Odetta Cadwell, our 2009 Fuller Award recipient. The recognition is well deserved. Odetta works hard every day, for us.

Our Keynote Speaker on Tuesday was Mr. James O'Donnell. Mr. O'Donnell is a survivor of the USS Indianapolis that was torpedoed and sunk by a Japanese submarine at the end of WWII. The USS Indianapolis had just delivered the atom bomb that was later dropped on Hiroshima and was on its way back to join the rest of the fleet when the torpedoes struck. As Mr. O'Donnell was telling his story I noticed the room was quieter than I have ever heard it before. We have had some terrific speakers in the past but this man held the attention of everyone in the room more so than anyone I ever heard. Thanks to Odetta for putting us in contact with him.

The Spring District meetings are coming up in May. I look forward to getting to each of them and meeting a lot of new people. See you in May.

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## THE GROUND WATER RULE - WHAT IT MEANS TO YOU (CONTINUED)

*(Continued from page 1)*

Each well in a well field must have a tap for collecting a sample. Samples must be collected at a point representative of the groundwater source prior to any pressure tank or treatment.

### **Location of sample taps must be at a point:**

- of positive pressure
- of relatively constant flow rate
- that is readily accessible
- a minimum of 18 inches above ground or floor level inside a building if possible.

### **Sample taps must be**

- down-turned
- smooth-nosed (without interior or exterior threads)
- without a screen, aerator, washer, filter, hose attachment, purification device, or other connected appurtenance.
- maintained in a clean condition

For specification for the sampling tap contact your field inspector.

**Correct deficiencies noted in the last sanitary survey.** As part of conducting sanitary surveys, IDEM notes any deficiencies found at your facility. Deficiencies include an inadequately sealed well or storage tank, chemical or bacterial sources of contamination within the sanitary setback area, unprotected cross-connections, or similar public health risks. All deficiencies identified must be corrected on a schedule acceptable to IDEM. Refer to your most recent sanitary survey report for deficiencies specific to your system. By correcting deficiencies before the next sanitary survey, you will protect public health and comply with the GWR. To get a copy of your latest sanitary survey contact your field inspector.

### **For More Information**

If you have questions about the Groundwater Rule, please contact Marc Hancock at (317) 308-3113 or by email at [mhancock@idem.in.gov](mailto:mhancock@idem.in.gov)

## InWARN WEBPAGE OPERATIONAL

Stan Diamond, InWARN Steering Committee Chair, reports that the webpage is now operational. Please visit the website -- [www.InWARN.org](http://www.InWARN.org) – for more information on this valuable program.

Additionally, the InWARN Committee wishes to thank IDEM (through Pat Carroll) for the providing the financial resources to get the webpage created, and the Indiana Association of Cities & Towns (IACT) and Brandon Cockrum for making it happen. Lastly, we must recognize, posthumously, Reggie Baker for without his recognition of the value of what we are creating we wouldn't have gotten this far.

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## STRETCH YOUR DOLLARS

*In these tough economic times, it is even more important to stretch every dollar in our utility budgets. Below is an approach the City of Westfield is successfully utilizing. Do you have ways in which your utility is getting more bang for your buck? Please send us your ideas and strategies so we may share with your fellow utilities. - by John Rogers; City of Westfield*

The Public Works Department of the City of Westfield has been fostering purchasing collaboration with local municipalities since 2003. In 2008, the City expanded their purchasing relationship with the local school district, Westfield Washington Schools and subsequently began coordinating and fostering relationships across the State of Indiana to expand their purchasing relationships even broader.

This expansion came about as the City reviewed the results of an internal spend analysis. Departments throughout the City were reviewing their costs and developing requests for proposals in many areas, including vehicle maintenance, fuel, and even copier paper.

The School submitted proposals along with other suppliers and was awarded the contracts based on overall best bids. Their proposal provided high quality products at a lower cost and required less process to manage the overall spend cycle.

This arrangement not only reduced expense and the purchasing process, but also contributed to a higher utilization of the School's facilities. The increased use of the School's purchasing organization, quantities purchased and garage facilities lead to cost avoidance for the School.

In the fall of 2008, the City of Westfield and the City of Indianapolis met with the Indiana Department of Administration and a group of local municipalities to form CIPA, Central Indiana Purchasing Alliance. The goal of CIPA is to foster cross-jurisdictional collaboration leading to improved purchasing outcomes.

CIPA members can utilize the resources of all members to improve their purchasing capabilities and capacities for all types of goods and services. CIPA is currently reviewing quotes on water treatment chemicals, LED traffic lamps, and fire hose.

The goals seem very obtainable, higher quality, simpler requisition to payment process and less cost, but without the cooperation of the agencies around us, not always reachable. This type of collaborative activity is just one of the operations we use to responsibly manage and extend the lifespan of the tax payer owned assets.

## COMPLIANCE ISSUES FOR WATER WORKS OPERATOR CERTIFICATION FOR THE YEAR 2009

Water works operator certification examinations are administered twice a year; i.e., May and November. Mayors, Town Board Presidents, Water Works Officials, Superintendents and other interested parties are notified by mail of the upcoming examinations at least 60 days prior to the scheduled examination pursuant to rule 327 IAC 8-12-4(a) (3)(A). The announcement is also posted on the Indiana Department of Environmental Management web site of: <http://www.in.gov/idem/5091.htm>. A copy of the exam application is also at this web site.

The announcement states that the applications must be postmarked by a specific deadline date of 45 days prior to the scheduled examination. Notification of the May 7, 2009, exam was mailed on January 20, 2009. The postmark deadline date for the May 7, 2009, exam is March 23, 2009. The fall exam is scheduled for November 5, 2009, with a postmark deadline date of September 21, 2009. All applications received after the postmark deadline dates will be held for review for the next scheduled examination.

The results from the November 6, 2008, exam were not favorable and may be due to lack of study by the applicant.

EXAM PERFORMANCE NOV 6, 2008 - SHORT SCHOOL PARTICIPATION Revised

3/15/2009

	DSS		DSM		DSL		WT2		WT3		WT4		WT5		WT6		TOTAL TESTS	
	PASS	FAIL	PASS	FAIL	PASS	FAIL	PASS	FAIL	PASS	FAIL	PASS	FAIL	PASS	FAIL	PASS	FAIL	PASS	FAIL
	17	8	10	18	21	54	13	7	23	39	1		1	23		1	86	148
{NO SHOWS}		{1}		{4}		{4}				{1}								{10}
PERFORMANCE	74%	28%	38%	64%	28%	72%	65%	35%	37%	63%	100%		4%	96%		100%	37%	83%
																		<b>TOTAL SCH</b>
ATTEND SCHOOL	12	5	8	11	16	32	9	4	12	25	1		1	15		1	57	93
PERFORMANCE	71%	29%	35%	65%	33%	67%	69%	31%	32%	68%	100%		8%	94%		100%	38%	82%
▼ SCHOOL SITE ▼																		
BLOOMINGTON				1		5		2		1								9
COLUMBUS	1	1	1	2	2	3		1		1							4	8
EVANSVILLE		3	1	1		2	1			1			5				2	12
FORT WAYNE	4	1		3		2	3		2	5							9	11
INDIANAPOLIS				2	1	5			4	5			7				5	19
JEFFERSONVILLE					1	1		1		1							1	3
LOGANSPOUT	2		2			3	2			3							9	3
MISHAWAKA	4				8	8	1		5	7							18	13
TERRE HAUTE																		
VALPARAISO	1			2		7	2			1			1	3			4	13
VERSAILLES			2		1				1		1					1	5	1
ALSO REPORTED ▼																		
SPENCER						1												1
																		<b>TOTAL NO SCH</b>
NO SCHOOL	5	1	4	7	5	22	4	3	11	14			8				29	55
PERFORMANCE	83%	17%	38%	64%	19%	81%	57%	43%	44%	58%			100%				35%	85%

NOTE: Short school numbers and the school sites identified were derived from what was reported on the exam cover page, and are not totally representative (also reported sites not established AWWA schools). {NO SHOWS} not included in totals and performance.

< There were no WT1 exams taken >

Revision: Pass/Fail changes due to 4 DSL (3 short school and 1 no school) and 1 WT3 (no school) given passing score after exam reviews.

## WARM WEATHER TIPS FOR WATER UTILITIES

After the long the cold winter, it is time to prepare for the other extreme. The purpose of this article is to get you brainstorming what areas you might have in your water system or community that could experience potential problems or risk due to warm weather. Here are a few areas that we need to check in our community and water utility, we call it our warm weather checklist.

### **PRODUCTION WELLS:**

- If you have not changed the oil in your vertical turbine motor in the past year, do it now and start a program where you do it this time yearly, or at least once a year.
- If you do not have a vertical motor that uses oil, grease bearings instead
- Check stuffing boxes, if packing glands need adjusted, adjust them accordingly
- Check any drains on pump heads or any drain lines to ensure they are draining properly
- When weather breaks and does not fall below freezing on a daily/nightly basis, it is safe to remove heat lamps and heat tape, store this in a safe area for use next year
- Remove insulation from around discharge piping if it has gotten wet, this helps prevent mold from starting to grow
- If you have noticed any issues pertaining to well production or maintenance, fix it now as you will not have sufficient time when peak demand season starts
- While you are at your well checking these other items, put a pressure gauge on well and record operating pressure, this will establish a base line for the year and if you think you are having a problem you can start by checking pressure at well and from there go into other trouble shooting items
- Check air release to ensure operating properly and did not freeze and fail over winter
- If equipped with a valve vault, open up and air out, if not equipped with sump pump this would be the time to pump it out and check fittings and piping to see if you have any leaks or other issues

### **HYDRANTS:**

- Bi-annual flushing
- Checking oil reservoirs/grease
- Greasing caps (food grade grease preferred)
- If hydrant is operational
- Hydrant valve is on all the way
- Verify hydrant is in data base (hydrant card)
- Overall Condition
- Does it Drain?

### **VALVES:**

- Accessible
- Operate correctly (close and open)
- Verify valve is in data base (valve card)
- Location

### **TOWERS:**

- Secured
- Screens are on overflows and no obstructions (bee nests, or ladybugs!!)
- If equipped, is aircraft warning light operational?
- Outside appearance (does it need power washed, painted?)

### **EMERGENCY STOCK ITEMS:**

- Repair clamps
- MJ sleeves
- Compression fittings
- Roll Plastic
- Lids and Rings
- Saddles(3/4 and 1")
- Valve boxes (tops and bottoms)

### **SECURITY NEEDS:**

While conducting warm weather inspections, this would be a good time to check security needs for each site.

- Secure accessways with chains and/or locks
- Clear fences and make sure they are properly maintained
- Close and lock gates
- Make sure any security or alarms are all operational

## CONTAINER LABELING

Employers are required by the Hazard Communication Standard (1910.1200) to protect employees from chemical substances in the workplace. Within the standard one requirement is for employers to label all containers that contain hazardous substances and train the employees so they understand their rights under the hazard communication standard. This means you have to train employees so they understand what the labels mean.

Container labels show the identity of the product and explain the hazards associated with the product by words, symbols, pictures and color. NFPA labels are very common and are one way to avoid a labeling citation with chemical products.

NFPA labels tell you the Health Hazard (blue), Fire Hazard (red), Reactivity (yellow) and specific hazards (white) of the product which should be named on the label. The ratings on Health, Fire and Reactivity hazards range from 0-4 with zero being least minimal and 4 being the most severe. The Specific Hazards can show you if a product is Corrosive, Acid, Oxidizer, Alkali, Radiation or don't use with water.

Also, the labels show pictures such as flammable, no smoking, gloves, respirator and goggles to let you know what you need to do when handling the product.

Target Organs are listed to let you know if the product is a hazard to for instance to your skin, eyes or respiratory system.

Lastly labels show key words such as Danger, Flammable, Ignites Readily, Severe Burns Possible or Fire Risk to further let you know the hazards associated with the product.

The goal in labeling is obviously to stay in compliance but ultimately to keep your employees safe. If containers are not labeled properly and you think you know what product you're using but it turns out that product was not what you thought it was, the outcome could be potentially fatal depending on the situation. You could have a chemical reaction, you could be burned, you could ingest something out of a container that was designed for drinking water but had another product put in it. That's why even water jugs need to be labeled drinking water.

Consumer products are also required to be labeled. The name of the product, active and inactive ingredients, uses, warnings, what to do if swallowed and an emergency number is labeled on these products.

The list of products is endless but it's very important to read and understand the labels so you know what you're working with and to keep yourself safe and healthy.

## MARK YOUR CALENDARS!! (Continued)

*(Continued from page 8)*

**April 20, 2009** – Indiana Rural Water Association – Annual Golf Outing – Otter Creek Golf Course; Columbus, Indiana. Contact: Odetta Cadwell at 317-402-7349; MaryJane Miller at 812-988-6631; or visit the IRWA website at [www.indianaruralwater.org](http://www.indianaruralwater.org)

**April 20 – 22, 2009** – Indiana Rural Water Association – 2009 Spring Conference – Holiday Inn; Columbus, Indiana. Contact: Odetta Cadwell at 317-402-7349; MaryJane Miller at 812-988-6631; or visit the IRWA website at [www.indianaruralwater.org](http://www.indianaruralwater.org)

**April 22, 2009** – AWWA Trenchless Technology Applications In The Water Industry - AWWA Webcast. Contact: [www.awwa.org/education/webcasts](http://www.awwa.org/education/webcasts).

**April 22, 2009** - IURC will be hosting a small utility workshop for small, regulated NFP and municipal utilities. Located on the IU Southeast campus in New Albany, IN. For more information or to register, please contact Dana Lynn, IURC Utility Analyst at 317-232-2750

**April 23, 2009** - Wastewater Treatment Plant Operator Certification Examination. Application must have been post-marked by March 9, 2009. Contact: Rebecca McMonigle, IDEM, 317-232-8791, [rmcmonig@idem.in.gov](mailto:rmcmonig@idem.in.gov).

**April 24, 2009** – Indiana Section AWWA – Water Operator Certification Test Preparation Workshop – IDEM-Conference Room C on Shadeland Avenue in Indianapolis, Indiana. Contact: Vicky Zehr at 260-427-1303 or visit the Indiana Section AWWA website at [www.inawwa.org](http://www.inawwa.org).

**May 5, 2009** – Indiana Section AWWA – Southeast District Meeting – Seymour. Contact: Tony Alley at 765-459-4125 or [talley@ortmandrilling.com](mailto:talley@ortmandrilling.com); or visit [www.inawwa.org](http://www.inawwa.org)

**May 6, 2009** – Indiana Section AWWA – Southwest District Meeting – Vincennes. Contact: Duane Gilles at 812-421-2120 or [duane.gilles@amwater.com](mailto:duane.gilles@amwater.com); or visit [www.inawwa.org](http://www.inawwa.org)

**May 6, 2009** – ICS-100/NIMS 700 – Free One-Day Training at Indiana-American Water in Greenwood, Indiana. Interested operators can register for this training at: [www.horsleywitten.com/ICStraining](http://www.horsleywitten.com/ICStraining). Contact: Andrea L. Seddon; Horsley Witten Group, Inc.; (508) 833-6600 x 170; [aseddon@horsleywitten.com](mailto:aseddon@horsleywitten.com)

**May 7, 2009** – Water Works Operator Certification Examination. Application must have been postmarked by March 23, 2009. Contact: Ruby Keslar, IDEM, 317-308-3305, [rkeslar@idem.in.gov](mailto:rkeslar@idem.in.gov) or Denny Henderson, 317-308-3304, [dhenders@idem.in.gov](mailto:dhenders@idem.in.gov)

**May 6 – 7, 2009** – AWWA Water Demand and Conservation Management: Planning, Policy, and Rates – Orlando, Florida. Contact: [www.awwa.org](http://www.awwa.org) or call 800-926-7337.

**May 10, 2009** – Indiana Section AWWA – Central District Meeting – Brickyard @ Indy 500 Track. Contact: Jim Russell at 317-745-5853 or [jrussell@iei.net](mailto:jrussell@iei.net); or visit [www.inawwa.org](http://www.inawwa.org)

**May 15, 2009** – Water Quality and Human Health in Indiana – The Second Indiana Environmental Health Summit at IUPUI Campus Center, Indianapolis.

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### Total Coliform Rule (TCR)

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Bridget Murphy	317/308-3286
Phil Guntle	317/308-3287

### SOCs, VOCs, Lead and Copper, Waiver Package, Radionuclides, IOCs, Nitrate/Nitrite

Lilia Park	317/308-3297
David Forsee	317/308-3288
Dennis Pace	317/308-3322

### Interim Enhance Surface Water Treatment Rule (IESWTR) Disinfectants & Disinfection By-Products Rule (DBPR) Surface Water Treatment Rule (SWTR), Total Trihalomethanes (TTHMs) Consumer Confidence Report (CCR)

Adrian Lugo-Martinez	317/308-3285
Peter Poon	317/308-3328
Yasser Elkhatib	317/308-3303
Cezar Natividad	317/308-3365

### System Inventory and New System Notification

Sara Pierson	317/308-3298
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### VFC (Virtual File Cabinet)

Abby Dion	317/308-3208
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### Database Maintenance/Network Administration/SDWIS/Fee Program

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April Swift	317/308-3290
Sara Pierson	317/308-3298
Vic Albright	317/308-3291

### Other Numbers

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**Small Systems Committee  
INDIANA SECTION AWWA**

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**American Water  
Works Association:**  
[www.awwa.org](http://www.awwa.org)

**EPA Drinking  
Water Hotline:**  
[www.epa.gov/OGWDW](http://www.epa.gov/OGWDW)



## MARK YOUR CALENDARS!!

To add dates to this section,  
contact any Small Systems  
Committee Member.

**Indiana Water Operator Training** for Facility Specific Operators – Please visit [www.indianawateroperatortraining.org](http://www.indianawateroperatortraining.org) for a schedule of workshops. While these workshops are geared towards Facility Specific Operators, ALL water operators may attend and receive contact hours.

**April 1, 2009** – Stage 2 Disinfection By-Products Rule Deadline – Systems serving fewer than 10,000 people and not connected to a system that serves 10,000 or more people – Begin SM or SSS Monitoring. Contact: Peter Poon at 317-308-3328, [ppoon@idem.in.gov](mailto:ppoon@idem.in.gov) OR Ceazar Natividad at 317-308-3365, [cnativid@idem.in.gov](mailto:cnativid@idem.in.gov) OR Stacy Jones at 317-308-3292, [sjones@idem.in.gov](mailto:sjones@idem.in.gov). Other information on the DBPR can be obtained from [www.epa.gov/safewater/disinfection/stage2](http://www.epa.gov/safewater/disinfection/stage2)

**April 1 - 3, 2009** – AWWA Financial Management: Cost of Service Rate-Making – New Orleans, Louisiana. Contact: [www.awwa.org](http://www.awwa.org) or call 800-926-7337.

**April 8, 2009** – AWWA Water Resources In The West - AWWA Webcast. Contact: [www.awwa.org/education/webcasts](http://www.awwa.org/education/webcasts).

**April 8 - 10, 2009** – AWWA Water Security Congress – Washington, DC. Contact: [www.awwa.org/conferences/security](http://www.awwa.org/conferences/security).

**April 9, 2009** – Indiana Rural Water Association – From Main to Meter Workshop – Ford Meter Box; Wabash, Indiana. IDEM approval pending for 6 technical water hours. Contact: Odetta Cadwell at 317-402-7349; MaryJane Miller at 812-988-6631; or visit the IRWA website at [www.indianaruralwater.org](http://www.indianaruralwater.org)

**April 14 - 15, 2009** – Indiana Water Environment Association - WITtec – Greenwood, Indiana. Contact: [www.indianawea.org](http://www.indianawea.org).

**April 20, 2009** – Indiana Rural Water Association – Water Operator Certification Test Refresher Workshop as part of the 2009 Spring Conference – Holiday Inn; Columbus, Indiana. Contact: Odetta Cadwell at 317-402-7349; MaryJane Miller at 812-988-6631; or visit the IRWA website at [www.indianaruralwater.org](http://www.indianaruralwater.org)

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Please visit AWWA's website ([www.awwa.org](http://www.awwa.org)) for additional information regarding continuing education and professional development offerings. Materials and instruction are available through a variety of media, from traditional seminars to online courses, teleconferences, and webcasts.