The Private Well Conference: A National Workshop on Private Well Issues



Steve Wilson, Jennifer Wilson & Katie Buckley Illinois State Water Survey at the University of Illinois



RCAP's Private Well Program

- A national outreach and well owner education program.
- Being implemented through the Rural Community Assistance Partnership (RCAP) and it's 6 regional affiliates to support private well owners.
- RCAP Partners include <u>www.PrivateWellClass.org</u> at the University of Illinois, NEHA, NGWA, and the WSC and 5 state well education programs (coop extension).







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outhern RCAP ommunities Unlimited 179) 443-2700 ww.communitiesu.org

CAP Solutions 800) 488-1969 www.rcapsolutions.org

WSOS Community Action Commission (800) 775-9767 www.glrcap.org

Southeast RCAP Southeast Rural Commu Assistance Project (866) 928-3731 www.southeastrcap.org

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RCAP's Private Well Program

Includes both Online and Boots on the Ground Efforts.
 U of IL Private Well Class – online lessons, webinars, videos, podcasts, newsletter, phone and email support.

- RCAP face to face workshops for well owners, sanitarians, and other stakeholders; one-on-one well vulnerability assessments (over 1,000 so far).
- NEHA online class for sanitarians, support for PWC.
 NGWA WellOwner.org, newsletter, webinars, videos,
- financial information, and more.
- Webinars to support the lessons and take questions.
- WSC hotline, factsheets, well owner manual
- Extension workshops, sampling in 5 states

CDC Survey

- Evaluate well owner education and outreach programs from around the country. (Why don't well owners test?)
- Surveyed 93 programs to gather information on implementation, methods, results and logistics.
- Qualitative look at challenges, experiences, lessons learned and suggested best practices.

Challenges

- · Lack of funding for private well programs.
- Differences in Construction Codes/ Rules: – What is a private well.
 - Permitting and well log submittal.
 - New Jersey vs Pennsylvania.
 - Especially in enforcing what rules they have.
- Not a lot of training available for County/Local Health Departments on private well issues.
- Has led to mostly local approaches to support well owners in many parts of the country.





A Lot Is Going On

- We learned about programs that are active at the state and local level, some unique with great ideas.
- Also learned about the challenges everyone is facing, and • realized sharing solutions and ideas would be a powerful way to support each other.
- Cliff Treyens said once to me (and it stuck), "There are so many private wells, and well owners are so hard to reach, that there is plenty of room for all of our efforts. (which is why we all submitted one proposal to EPA together, rather than competing for funding.)
- We realized we needed a workshop to bring everyone together to share challenges, ideas, successes, and develop partnerships.

We Also Had A Great Model

	14th Annual EPA Drinking Water Workshop Small Systems Challenges and Solutions August 22-24, 2017 - Hilton Netherland Plaza - Cincinnati, Ohio
	Sponsored by the U.S. Environmental Protection Agency (EPA) in partnership with the Association of State Drinking Water Administrators (ASDWA)
	Agenda
	Tuesday, August 22, 2017
7:45 am	Registration (Entrance to Pavillion Ballroom)
8:30 am - 10:00 am	Pavillion Balfroom SESSION 1: WELCOME AND KEYNOTES Moderator: Thomas Speth, EPA's Office of Research and Development (EPA-ORD)
8:30 am	Agenda Review and Logistics Thomos Speth, Michelle Latham, Darren Lytle, and Thomas Sorg (Workshop Organizers), EPA-ORD Year in Review and a Look Ahead Cynthia Sanich-Mullin, Director of EPA-ORD, National Risk Management Research Laboratory
9:15 am	Agency Priorities and Introduction of Keynote Speaker Richard Yamada, Deputy Assistant Administrator for EPA-ORD
9:30 am	Keynote Address Craig Butler, Ohio EPA Director and The Environmental Council of States (ECOS) Committee Chair for Water and Region 5 Representative
10:00 am	Break

Why EPA Workshop Has Been So Successful

- They pick the topics and invite the speakers they want .
- They pay for each state to send 1-2 people who are working with small systems.
- Mostly a single track, with some breakouts, panels, and time to learn from experts.
- Have expanded breaks and activities to encourage interaction.
- Market and target professionals who are all involved with small systems.
- Let anyone come for free and provide conference materials.





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CAPT David Harvey is the Deputy Director of the Division of Sanitation Facility Constriction (DSFe within the Indian Health Service. The DSFC plan designs and constructs private well installation along with other sanitation facilities that serve away who ther samuaton pachaes and serve nearly 400,000 American Indian and Alaska Native homes in 38 states. In addition the IHS provides technical assistance to help tribal homeowners and utilities operate and maintain the sanitation facilities provided.

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oncaswell.com We are a full service water well contractor in MN, serving municipal, residential and industrial water wells. I am also the president-elect of the National Groundwater Association. Hollenbeck, Katie

Minois Water Resources Center Water Resources Outreach Spee 1101 West Peabody Dr. NSRC 038, MC-635 Urbana, IL 61801 kholl5@illinois.edu

I work for the Private Well Class to help reach well owners on a national scale. We develop content an educate private well homeowners an how to care for their private well by facilitating webinars, hosting a 10 week online course, producing blogs, videos, and a podcast and have a variety of other multimedia weik-len media vehicles

Ihms, Ann Criterion Water Labs, LLC Criterion Water Labs, LLC Lab Manager 329 East Firmin Kokomo, IN 46902 (765) 438-4995 water@criterionwaterlabs.com

We host an annual open house for the lab and a radia program. The County Health Department refers customers to us with questions and testing needs. We link homeowners with inspectors and well afilers. We work with mortgage and refinan customers to meet their requirement for well testing. We host an annual open house for the lab and a

- Encouraged interaction Long breaks
 - Time for questions Interests in Binder

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Hamilton County Soil and Water Conservation District tion Administrator 1717 Pleasant St. Suite 100 Noblesville, IN 46060 (317) 773-2181 Ginger.Davis@hamiltoncounty.in.gov

We provide resources and conservation plans for well owners, provide cost share for abandonment of wells, provide testing services and reports based on

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l oversee field engineers and technicians who work directly with homeowners.

Dennis, Kara

Minnesota Dep Hydrologist artment of Health

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We are also a local health department. We permit and regulate private water well placement. We work with licensed well dillers and homeowners to educate on private water wells. We collect water decisate on private water wells. We collect water wells and the second second second second contractors to abandon old wells and renovate wells.

DiPippo, Peter Rhode Island Department of Health Private Well Program Manager 3 Capitol Hill Providence, RI 02908 Providence, RI 02908 (401) 222-7781 peter.dipippo@health.ri.gov

I work with private well owners assisting them in testing, treatment, and regulatory compliance fo new and existing wells before, during, and after r estate transactions.

What We Wanted To Happen

- Expand the national dialogue we were creating with the • RCAP private well program.
- Provide an opportunity for practitioners, those working with well owners directly, to share their experience, and develop relationships with like-minded professionals.
- Decided that if we brought 20-30 experienced professionals in to speak, even if no one came, we would have a great workshop, so we paid their travel expenses.
- Wanted it to be free to attend to attract those w/o a travel budget. (had a number from IL and IN who drove in.)
- Start new collaborations, opportunities to learn from each other, leave wanting more and excited to get to it.

Role As Facilitator

- We know there is a lot of great work going on around the country. We wanted to bring those folks with a passion of supporting private well owners together.
- Help develop non-traditional partnerships (we are convinced drilling/GW professionals and sanitarians need each other to create highly successful efforts.)
- Introduce private well practitioners to RCAP and their . efforts around the country.
- Elevate common goals we have related to educating private well owners. (raise the bar on expectations nationally)



- Sanitarians, groundwater professionals, extension, drillers, regulators, labs, educators (all were there)
- Set up conference to step through what we have learned from the Private Well Class Program.
 - Challenges and Opportunities about wells and well owners, the same/similar issues in many areas.
 - Perspectives meaning view of well owner, vs regulator, vs educator, vs driller, why each is important for the other to understand.
 - Innovations what are some of the cool ideas and things some have learned and others need to know
 - Partnerships a full day on how we can go farther together and the role each of us can play.



Challenge – Lead, Arsenic

- Many older homes with lead premise plumbing • Complicated, education is difficult
 - Treatment can affect corrosivity
 - Galvanized drop pipe and premise plumbing
 - _ Corrosivity of natural groundwater
- Arsenic is well known and understood problem, yet Many well owners don't seem that concerned
 - Sometimes have no choice. _



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Perspectives – Drillers Panel



2.2 - Private Well Drillers - Panel Discussion

Perspectives – Drillers Panel



Mark Layten – Kickapoo Drilling - Coliform Testing

- Why there are so many bad tests today
- The fact that drillers are doing so much more than drilling (sampling, treatment, etc.)
- Explained procedure

Perspectives – Drillers Panel



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EDUCACE, IT THE BEET FORM OF ENFORCEMENT ACTIVITY INGAGE THE INDUSTRY AND WORK WITH WILLING PAIEN REALES THAT WE ARE INDUSTRY PARTNERS, WE NEED EACH OTHER HARTLA SOUND, LOGICAL DIFFORCEMENT MODEL GATHER INDUSTRY INFIT WITH CRAFTING RULES David Henrich – Bergerson-Caswell & NGWA

- Discussed his public service, NGWA, relationship with state.
- Drillers are affected by so many rules.
- Future GW issues.How to elevate the
 - industry, knowledge, and well owner engagement by working together.

Perspectives - Drillers Panel

Corwin Gingerich – Gingerich Well Drilling

- Talked about relationships, and why good drillers are good colleagues with public health and regulators.
- Family business, believes in community.
- Volunteers, and willing to share resources.

Drillers Panel

- Point was to provide the industry an opportunity to engage participants who are regulators and public health practitioners.
- Not only to share their perspective, but to help them understand how valuable drillers can be in their program.
- And a chance for the audience to ask questions.
 - Discussed what is guaranteed (products & workmanship), learned that quality of the driller certainly matters
 - Shock chlorination
 - Level of chlorine
 - What procedure to use
 - Regulations that don't make sense or too difficult
 Sometimes hurt the "good guys", others ignore
 - Those that don't follow the rules give all a bad name
 - Educating well owners, drillers role



EMPLOYEES & THEIR

Innovation – Be Well Informed Tool

Pierce Rigrod – NH DES

- Provides well owner with evaluation of water sample.
- Recommends treatment based on results.
- Provides guidance
- Offered code, since conference 6 states have asked for it and are developing similar sites.

Innovation Partnerships – Lane Co.



Sarah Puls –

- Lane County Oregon
 - Wrote grant to get testing equipment.
 - Provided to 2 high schools in county.
 - Do testing, send out kits, send out letters.
 - Learning experience for science students.

Successes

- Evaluations were phenomenal
 - Best conference I have EVER been to.
 - Every presentation was relevant to what I do.
 - I learned so much, and made excellent contacts.
 - Can't wait for the next one.
- Lots of relationships and partnerships started.
 - VT met FL and TX folks at conference
 - 1100 samples in TX
 - 600 samples in FL
 - We were called to facilitate with state agency
- Most attendees said that they had no idea so much was going on around the country.



Biggest Takeaway - Partnerships

- · So many wells, well issues, and uninformed well owners.
- We all have to be engaged in providing solutions to raise public awareness of private well issues. It will:
 - Elevate your business
 - Earn you respect locally
 - Help educate regulators and educators
 - Provide advertising for your business.
- What you can do
 - Contact local extension or health department and offer to present at public meetings for well owners.
 - Be a resource to answer well owner questions.
 - Pass out materials (see me for info)





The Private Weir conference

collaboration and partnerships

The 2017 Private Well Conference, held May 23-25, 2017 in Champaign, IL, was the first of its kind with national scope and exicuture focus on protoade drinking water expoles. This conference brought together members of the protoade well committy to learn new ideas and share experiences to strengthen outreach, education, and researc programs around the country.



provided by the U.S. Environmental Protection Agency and Rural Community Assistance Partnership (RCAP). The conference was seconded and the violence on one walkfulle on You't date





Questions



Thanks for attending!

