

DOWRA
P.O. BOX 1696
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WWW.DOWRA.ORG

DOWRA NEWS

Delaware On-Site Wastewater Recycling Association

Newsletter Date February 2010

Letter From The President!

As DOWRA enters its 14th year, I am privileged to represent you as the President of DOWRA. With the support of our newly elected and highly qualified Board of Directors and Committee volunteers, together we are focused on expanding the DOWRA goal of educating both members and the public of Delaware on the topics related to the onsite industry. There are some new and exciting ideas coming forward at our Board / Membership meetings that will set the agenda for the up and coming years for DOWRA. I would like to invite all of you personally to attend or quarterly meetings. This is where your ideas and thoughts can be brought up to the members and the board. I hope to see increased attendance at the board / membership meeting on March 9, at the Delaware state fairgrounds Exhibit Hall. Please remember your input is crucial to the growth of our organization, as we join together with our thoughts at the meetings I can only visualize with the more input from our members the better we as your board can represent you as an organization.

Hope to see you there!

Jim Williams
DOWRA President

Just a quick Reminder that Del Tech is currently accepting nominations for the Operator of the Year Awards. These nominations must be turned in to Del Tech no later than March 15, 2010, Attention: Jerry Williams.

Link Swap

DOWRA is interested in updating our website to include our member's web page links.....Well that is if you are interested in swapping for ours.

DOWRA would be happy to provide a link to

your website in exchange for a link to the DOWRA website on your page.

This is a good way to share information at no cost. If you are interested please email

Hilary.Valentine@state.de.us or contact her at 302-

739-9331.

The DOWRA website can be found at www.dowra.org



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DNREC Proposes Regulation Changes– Jack Hayes

The Groundwater Discharges Section (GWDS) has had two rounds of public workshops providing changes being considering and soliciting additional changes/comments for the revision of the Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems. As most of you are already aware we are greatly expanding the large system sections which will also incorporate the entire spray irrigation regulation and guidance document. I believe we are about 65% complete with the changes to date. I hope to have the exhibits revised within the next month or two provided the person making those changes has the available time within this timeframe to complete the changes. It is not too late to submit your comments or proposed changes. I am hoping to be through the review process and hold a public hearing by the fall though. The small systems changes are about complete as well as the large on-site systems stuff. The biggest portion left to tackle is the spray irrigation stuff. Any comments/suggestions for that part would be greatly appreciated.



Some big ticket things include; tiering of the Class D and E licenses, adding additional exhibits for spray and large systems, considering Wisconsin At-Grade systems conventional, decided not to go to top-seam septic tanks but will require certification for air tightness testing, some new definitions, significant changes to the Variance process and protocol for wet season monitoring (water table based vs. precipitation). There are many smaller changes but they could be significant to your particular piece of the industry pie so it would be smart for you to attend the next round of workshops. I am anticipating that there will only be one more round of workshops for the small system portion. The next workshops have not scheduled yet but plan on the April timeframe for this to occur. If you have any questions please feel free to call me at (302) 739-9327. All of the changes proposed through the last workshops can be found on the DNREC website, <http://www.wr.dnrec.delaware.gov/Information/regulations/Pages/GroundWaterDischargesRegulations.aspx>.

DOWRA Committees

In order to shape the organization, DOWRA relies on its committees for direction. Currently we have the following active committees: Education; Bylaws; Membership; Del Tech; Conference; Activities; DOWRA/DNREC Partnership; Website; and Newsletter. We are always looking for committee volunteers, so if you would like to participate please contact the corresponding committee chair:

Education and Activities—Kevin Sockriter, kevinncp@verizon.net

Bylaws— Hollis Warren, htwarren430@aol.com

Conference—Jim Williams, depumpman@aol.com

Website/Newsletter—Jim Williams, depumpman@aol.com

DOWRA/DNREC Partnership— Robert King, rob.king@state.de.us

Del Tech—Hollis Warren, htwarren430@aol.com

Portable Monitoring Instruments Solve Flow Rate Mystery

As systems continue to become more advanced and we as an industry continue to work on more challenging projects, controls and instrumentation play a very important role. Through the use of both stationary and portable flow meters we can remove at least one aspect of the guess work out of trouble shooting. That aspect is of course flow. Knowing how much water we are dealing with is crucial in solving most onsite treatment and dispersal problems.

The next few paragraphs detail how the use of flow monitoring helped one community to isolate and solve a problem with very little cost to the homeowners.

The Glen Walter Sewage Collection System was built to service 1080 customers in 1989. At the time the population was 850 but by 1995 the sewage treatment plant had already reached capacity. Shawn Killoran took over the Operations Manger position in 1999 and, along with the Mayor and Council, he immediately had concerns about the excess flow.

The Township started by video taping all of the lines in the collection system. The pipe work was found to be in good condition so significant infiltration was unlikely. Shawn realized he had to rethink the approach and find a way to leverage technology. He decided to monitor flow in high volume

areas within the collection system. The Township selected Stingray Level-Velocity Loggers from Greyline Instruments because they are portable, work in partially filled pipes, and enable technicians to retrieve wastewater flow data without entering manholes.

The I&I study of the Glen Walter Sewage Collection was conducted from May 16th to June 9th 2006. The instrument's ultrasonic sensors were installed in 7 different manholes for periods of 3 to 5 days. To capture detailed flow information the Township set the Stingrays to take readings at 10 second intervals. To deploy each unit, a township technician selected a manhole location, attached a stainless steel bracket in the influent pipe, then mounted the sealed, ultrasonic sensor into it. The technician connected the sensor cable to the watertight electronic logging unit and hung it inside the manhole. The logger recorded the date and time, water level, velocity and temperature.

To conduct the study the Township recorded weather conditions on a daily basis in the Glen Walter Collection log book and the number of homes upstream of the flow monitors were also noted. When a Stingray was removed from a specific manhole, the information was transferred to Greyline Logger software and a graph was created which dis-

played the total flow for that specific area. At the end of the survey Shawn prepared a flow monitoring report for the Mayor and council on high volume areas within the collection system.

An average of one cubic meter a day per household was used as a guide for the amount of water used in a 24 hour time interval. Locations monitored by Stingray Level Velocity Loggers recorded flow rates 15-70% higher than statistical flows. The loggers captured spikes in flow that matched typical run times from domestic sump pumps. Because the Stingray is able to monitor water temperature, Shawn also observed corresponding temperature drops matching the pump cycles. The evidence was clear: residents were connecting sump pumps to the municipal collection system.

Municipal agents went door-to-door informing residents that improper sump pump connections had been identified. They requested that any sump or eves trough discharges be disconnected from the municipal system. Shawn reported that "after the flow survey we observed a reduction in influent at the sewage treatment plant". Since the Glen Walter study, the Greyline Stingrays continue to be used to measure flow in other applications in the Township of South Glengarry.

While this situation involved a system on a larger scale than most of us work with the same principles apply to a wastewater systems.



"Knowing how much water we are dealing with is crucial in solving most onsite treatment and dispersal problems."



NOWRA Partners with WEF

Effective February 1, 2010, WEF and NOWRA are pleased to announce a significant partnership that educates and represents the decentralized systems and onsite wastewater treatment profession.

WEF has been the go to source of information for centralized wastewater treatment training and education and NOWRA is the acknowledged leader for decentralized approaches.

This partnership demonstrates both organizations interest in collaboration with a view toward a common goal of a cleaner global water environment.

NOWRA and WEF will strategically partner on several key initiatives including expanding knowledge sharing and training in common areas; promoting existing technologies and new applications for onsite and natural treatment systems; educating the public on proper use and benefits of onsite and natural system technologies; and promoting consistent regulation for effective management and oversight.

WEF has offered NOWRA an opportunity for an office in the Washington DC area and a chance to combine forces to share our knowledge of the decentralized systems and onsite wastewater treatment profession with their experience as a global organization. President, Tom Groves, of NOWRA, has said " After

investigating partnership options, the NOWRA Board decided that WEF provides us with the most viable option for partnership and the Washington location allows us to be more responsive to and involved in legislative actions related to the field."

WEF was formed in 1928, and is a not-for-profit technical and educational organization with 36,000 individual members and 75 affiliated Member Associations representing water quality professionals around the world.

NOWRA was formed in 1992, and is also a not-for-profit technical and educational organization with 4,000 individual members and 20 affiliated state/province associations.

Groves, of NOWRA, is "excited about the opportunity to increase awareness and promote our sector to state and federal institutions as well as the engineering community who are less familiar with the range of institutional and technical options our members offer to help sustain North America's wastewater infrastructure."

For more information about WEF and NOWRA, visit www.wef.org and www.nowra.org.

Our next board meeting may have a NOWRA representative in attendance to explain more.



National On-Site
Wastewater Recycling
Association
www.nowra.org



www.wef.org

2010 BOARD of DIRECTORS**President**

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A Special Thanks!!!!

The DOWRA board would like to thank Brian Carbaugh, Jim Cassidy, Scott Pinder and Gusty Voshell for their past years of dedication to the Board of Directors.



2010 DOWRA Calendar of Events

February

February 23 - 25 , Delaware Rural Water Association Conference
Delaware State Fairgrounds
Harrington, DE
NOWRA/ Conference - Kentucky

March

March 9, Board/Membership Meeting
6:30 pm Pizza, 7:00 pm meeting starts
Board Room, Exhibit Hall, Delaware State Fairgrounds

April

2010 Clay Shoot April 14, 2010
Owens Station Sporting Clays – 12612 Hunters Cove Road
Greenwood, DE 19950 // Contact: Jim Williams 302-492-3915
Kevin Sockriter: 302-349-5528

May

May 6, On-site professional of the year award
Del Tech, Owens Campus
Georgetown, DE

June

June 8, Board/Membership Meeting
6:30 pm Pizza, 7:00 pm meeting starts
Board Room, Exhibit Hall, Delaware State Fairgrounds

July

Delaware State Fair Exhibit
July 22 thru July 31
Grandstand, Delaware State Fair
Harrington, DE

August

August 19, 2010 DOWRA Membership Appreciation Crab Feast
Invite Only //6:00 pm, Seafood City, Felton
** All those who attend board/membership meetings will be invited

September

September 14, Board/Membership Meeting
6:30 pm Pizza, 7:00 pm meeting starts
Board Room, Exhibit Hall
Delaware State Fairgrounds

September 17 DOWRA Annual Golf Tournament
12:00 pm, at Jonathans Landing Golf Course (Shotgun Start)
Magnolia

October

October 19 - 20 Annual DOWRA Conference
Location : Dover Downs



P.O. Box 1696
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**Find all of our
events on our
website at
www.dowra.org**

**Registration
information is
available for the
clay shoot and golf
tournament!**