

Delaware Source Water Protection Citizen & Technical Advisory Committee

June 6, 2015
Kent County Administration Bldg.
Conference Room 220
Dover, DE

Agenda

Time	Subject	Presenter
8:00 - 9:00	Setup / Refreshments	
9:00 - 9:15	Opening Remarks & Program Update	Doug Rambo DNREC - Source Water
9:15 - 10:00	EPA's Unregulated Contaminant Monitoring Rule (UCMR)	Anita Beckel DNREC - Source Water
10:00-10:25	Regulatory Update Delaware Regulations Governing the Construction and Use of Wells	Alan Pongratz DNREC - Water Supply Section
10:25- 10:45	Break	
10:45-11:30	WATAR - Not Just Another Silly Acronym	John Cargill, P.G. DNREC - SIRS
11:30 - 12:00	Public Comment / Questions and Answer Session	

Program Updates

- USGS & DNREC Arsenic & Radon in Drinking Water Study
 - GPB is working with the U.S. Geological Survey (USGS) to develop a study of groundwater quality in the Rancocas aquifer. This aquifer is most widely used in southern New Castle County and northern Kent County.
 - Goal is to sample 50 domestic wells in the Rancocas aquifer. The study will focus on arsenic and radon in “raw” (untreated) groundwater, but we will also be looking at basic groundwater chemistry.

Arsenic & Radon (cont)

- The arsenic and radon in this aquifer are from natural, mineral sources.
- We intend to use these data to better identify areas with potential for levels of concern for well owners.
- Sampling results will be provided to the well owner free of charge.

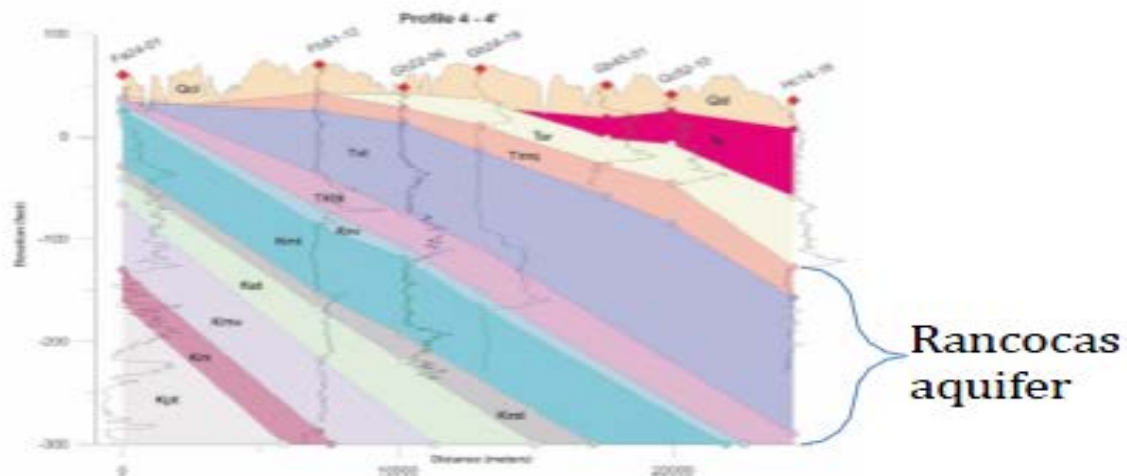
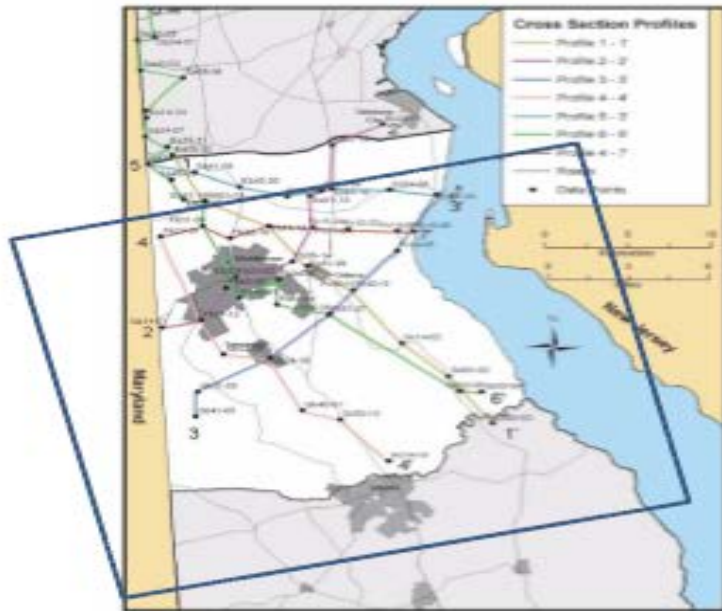


Figure 1. Map and cross section showing area of use of the Rancocas aquifer. Line of cross section shown on map. Map and cross section from Dugan and others, 2008.

Program Updates (cont.)

- SWP continues to work with DNREC SIRS on:
 - the issues related to the PFOS/PFOA contamination in the public wells near the Delaware Air National Guard / New Castle County Airport area as well as the surficial aquifer at the Dover AFB (no PWS affected).
 - their continuing investigation into potential sources of contamination in the Hockessin area related to detections of trichloroethene (TCE) in public supply wells.
- SWP continues to work with DNREC SIRS and EPA Region 3 in the investigation of tetrachloroethene (PCE) that has been detected in one of the Town of Delmar's supply wells.
- We continue to work with DNREC TMS and do reviews of new UST facilities being installed in the State.

Program Updates (cont.)

- Joshua Kasper, of the GPB, who has presented to us before on various topics, has recently had a paper published along with Judy Denver (USGS) and Joanna York (University of Delaware) in the Journal of Environmental Quality (JEQ). The article, **Suburban Groundwater Quality as Influenced by Turfgrass and Septic Sources, Delmarva Peninsula, USA**, characterized groundwater quality in a sandy, water-table aquifer influenced by suburban development and compared the results to known patterns in water chemistry associated with natural, background conditions and agricultural effects.

<https://dl.sciencesocieties.org/publications/jeq/articles/44/2/642?highlight=&search-result=1>

Status of Source Water Ordinance Development (1 of 2)

- **Camden - Done**
- **Dover - Done**
- **Georgetown - Done**
- **Harrington - Done**
- **Kent County - Wellhead Setback Ordinance in place - Working with the County on large WHPA's and Excellent Recharge areas**
- **Laurel - Done**
- **Lewes - Done**
- **Middletown - Done**
- **Milford - Done**
- **Millsboro - Done**
- **City of New Castle - Done**
- **New Castle County - Done but addressing minor areas within Level 2 watersheds**
- **Newark - Done but addressing Level 2 watersheds**
- **Seaford - Done**
- **Sussex County - Done**
- **Wilmington - Done**
- **Smyrna - Done**

Status of 2010 Census Source Water Ordinance Development (2 of 2)

- **Bridgeville** – Has hired a consultant to update their Comprehensive Land Use Plan and develop a Source Water Protection ordinance. Intends to use model ordinance developed by DNREC & DRWA. (Meeting 5/5/15) ;
- **Milton** – Working with Sussex County Deputy Administrator and DNREC on ordinance – using model ordinance developed by DNREC & DRWA. P&Z Commission mark-up 5/4/15 – Recommendations to Mayor and council for meeting 5/11/15;
- **Townsend** – Done;
- **Clayton** –(UD/IPA) Maps and Ordinance have undergone a number of reviews by DNREC staff. A public hearing was held on the ordinance in April and the First Reading of the ordinance is scheduled for May 11. Anticipate adoption in June;
- **Selbyville** – Done;
- **Odessa** – **In place** – modeled off of New Castle County WRPA ordinance (some issues that need to be addressed).

Next Meeting

- The next meeting of the CTAC is scheduled for:
November 4, 2015

Tentative Speakers

- DNREC Secretary David Small - TBA
- Dr. Holly Michael, UD Dept. of Geology – Seawater Intrusion
- Artesian Water Co – The “Real” Cost of Drinking Water Production



Presentations



Open Q & A Period



Thank you for your participation.