



- *Engineering*
- *Consulting*
- *Operations*

Shippensburg Enhances Chesapeake Bay Water Quality

The Borough of Shippensburg will soon be doing its part to enhance water quality in the Chesapeake Bay by helping to reduce sediment and nutrient concentrations in the Chesapeake Bay Watershed. Pennsylvania is an important contributor to the Chesapeake Bay as thousands of creeks, streams and rivers in Pennsylvania drain into the Susquehanna River.

Located in rural Cumberland and Franklin Counties, the Borough is currently soliciting bids for a biological nutrient removal (BNR) upgrade to the Borough's wastewater treatment plant. The BNR upgrade will feature a five-stage process consisting of anaerobic, primary anoxic, oxic, secondary anoxic, and reaeration zones. Designed by ARRO, the upgrades will include the construction of a new activated sludge reactor tank to provide additional treatment volume, modifications to the existing activated sludge tank, a new diffused aeration system with dissolved oxygen control, and supplemental carbon storage and feed systems. A supervisory control and data acquisition system (SCADA) will be added to monitor and control the BNR process. The modifications will enable the plant to remove nitrogen and phosphorous to low levels, while reducing the amounts of chemicals used and sludge produced. The upgrades will provide for more automated operation and monitoring of critical treatment plant processes.

Construction is slated to commence in early 2006 and is expected to be completed by the Fall of 2007. The improvements are being funded, in part, by a \$500,000 Growing Greener grant.

ARRO

Dynamics

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Changes to PA One Call Law Proposed



On December 14, 2005, the Pennsylvania House passed legislation that would reauthorize and amend the Underground Utility Protection Act -- HB 2223. House Bill 2223 modifies the Underground Utility Protection Act (Act 287 of 1974) to further clarify and amend various definitions, duties of facility owners, duties of the One Call System (OCS), duties of contractors, and penalties for non-compliance. On January 23, 2006, the PA Senate referred the bill to the Consumer Protection and Professional Licensure Committee.

The current law (Act 287 of 1974) sunsets on December 31, 2006. Act 287 was originally established to protect public health and safety by preventing excavation and demolition work from damaging underground lines used in providing electricity, communication, gas, oil delivery, sewage, water or other service.

Some of the major changes within this legislation include:

- Defines and adds higher standards for complex projects. Complex project means an excavation that involves more work than properly can be described in a single locate request or any project designated as

- such by the excavator as



- a consequence of its complexity or its potential to cause significant disruption to lines or facilities and the public, including excavations that require scheduling locates over an extended time frame.
- Provides for use of subsurface utility engineering for complex projects estimated to cost over \$500,000. Once done, this would become part of the permanent data base for underground facilities in the Commonwealth.
- Adds a new section describing the responsibilities of project owners. One significant change would require the project owner to utilize subsurface utility engineering or similar techniques, wherever practicable, when designing complex projects having an estimated cost of \$500,000 or more.
- Clarifies certain terminology that has caused confusion, including more specifically assigning responsibilities among the Pennsylvania One Call System, excavators, facility owners, designers, engineers, and project owners.
- Increases penalties for non-compliance.
- Assigns responsibilities to the facility owner for locating abandoned lines and points of connection to utility main lines and service lines running to homes and businesses.

If signed into law, this act would take effect in 60 days. The new sunset date would be December 31, 2016.

this'n that

EPWPCOA Awards

At the Eastern Pennsylvania Water Pollution Control Operators Association (EPWPCOA) meeting on November 18, 2005, ARRO received the Certificate of Appreciation award for ongoing graphic contributions. ARRO's Todd Kauffman was elected first vice president. ARRO's William Horst received the Bolenius-Wiest Clean Streams award and Stephen Blefgen received the A.F. Fricken Individual Service award.

Other award recipients included Jess Weiss of the Borough of Orwisburg, Dennis Mann of the Borough of Myerstown, Easton Area Joint Sewer Authority, Borough of Sinking Springs operated by Miller Environmental, Christine Hilditch of DELCORA, and Central Carbon Municipal Authority. Congratulations to all award recipients.

Phrases You Don't Want to See....

On Your Interview Form:

- This candidate is at rock-bottom and has started to dig.
- When she opens her mouth, it seems that it is only to switch feet.
- This candidate should go far, and the sooner he starts, the better.
- Has the full six-pack, but lacks the plastic thing to hold it all together.
- A gross ignoramus ... 144 times worse than an ordinary ignoramus.
- Very confrontational ... he would argue with a signpost.
- This young lady has delusions of adequacy.
- If you see two people talking and one looks bored, he's the other one.
- Some drink from the fountain of knowledge; he apparently only gargled.
- Probably takes him 2 hours to watch '60 Minutes.'
- A photographic memory but with the lens cover glued on.

Business Etiquette

Business etiquette has changed drastically since the days when guys in ties asked permission of ladies before they removed their suit jackets to get down to brass tacks in their sleeves. So, how do you know what's correct when rules have changed - and continue to change?

Question: I sent out invitations for a sit down luncheon at a restaurant and I still have not had a response from numerous people. Should I call the people and verify their schedules, and if so, how soon before the luncheon should I contact them?

Answer: Yes, it is appropriate to call the guests so that you may give the restaurant an accurate head count; one week in advance would be appropriate time frame.

Do You Know?

- 1.) How many muscles do you use to take a single step?
200 10 50 120
- 2.) In the USA, about how many gallons of milk does the average cow give in one year?
1,600 60,000 600 125,896
- 3.) Where is the windiest place on earth?
Chicago London Antarctica Tokyo
- 4.) Who is likely to have a faster pulse - a man or woman?
Man Woman
- 5.) How old was Mozart when he wrote his first symphony?
6 12 3 8
- 6.) What is the largest island in the world?
Cuba Taiwan Fiji Greenland



Please email your answers to info@thearrogroup.com

Employee of the Month

Scott Miller was selected ARRO Employee of the Month for January 2006. Scott has been with ARRO since 1983. He is a Designer IV and works in the Lancaster office. Many of his assignments include land development and subdivision work.

Notable Quote: "Real knowledge is to know the extent of one's ignorance."

Confucius

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ARRO provides advice, design, project management, consulting, and operations services for a wide range of infrastructure including water, wastewater, and transportation systems.

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Suplee Retirement

The door to ARRO closes as the door to simplicity and relaxation opens. After nine years with ARRO and thirty years experience marketing solutions to environmental problems, Dick Suplee has retired. Retirement brings to Dick more time to spend with his wife, Barbara, their two children, and grandchildren. It also brings additional time to splurge on life's little pleasures and achieve all of his desires and ambitions.

Dick joined ARRO in July of 1996 as a marketer in the Limerick office. He is a graduate of Temple University where he received his bachelor's degree in business. He completed graduate studies in business administration at West Chester University. He is a member of the Water



Works Operators' Association of Pennsylvania, Pennsylvania Municipal Authorities Association, American Water Works Association, and the Chesapeake Water Pollution Control Association for which he was the staff editor of "ECOLETTER."

Dick is currently pursuing his real estate certification. He is an avid reader and enjoys collecting first edition publications. Co-workers describe him as a hard worker who is always willing to go the extra mile. Dick's many years in the marketing field allowed him to build an extensive list of people who have been very helpful when pursuing potential clients for ARRO.

His smiling face, upbeat personality, and consideration for others will be greatly missed. Thank you Dick, for your hard work, dedication, and knowledge. Enjoy retirement and all the pleasures that it has to offer. From everyone at ARRO, best wishes and a fond farewell.