



## Sustainable Water Future

Drought, water supply, Flint, MI, and leaky pipes are keeping the water industry in the news lately. Also, The White House is making an impressive commitment to act as a catalyst for research and industry best practices. The Administration is looking for private industry to conduct targeted research and commit greater levels of investment in water-efficiency solutions. They are developing a water innovation strategy that calls for the industry to boost water sustainability and long-term water security by increasing use of water-efficient practices and reuse technologies.

The White House staff held a series of fact-gathering sessions earlier this month, and the Alliance attended. Following the meeting, Peter Dyke, Executive Director of the Alliance, said, "I was honored to represent our membership at the White House, meet leaders in the water industry, and learn more from our peers about the issues. The administration is committed to learning from and working with public leaders, government officials, and private industry to advocate, influence, and help fund when necessary. It is our hope to continue our participation in a substantive way to share with government and industry the features and benefits of fusible pipe systems."

The White House will support the United Nations' World Water Day on March 22 by hosting a simultaneous Water Summit to draw attention to the importance of sustainable water practices. The UN conducts the day as a means of focusing attention on the importance of freshwater and advocating for the sustainable management of freshwater resources, and the Administration will bring "representatives from Federal, State, regional, local, and tribal governments together with private sector and other stakeholder groups to discuss ways in which the public-private water innovation strategy is making progress in this important area." The event will allow industry leaders and the administration to engage and start building "broader consensus on a path forward."



*The White House is developing a water-innovation strategy to nurture water sustainability and increased use of water-efficient practice.*

## Ask the Engineer

**Today's Engineer is Richard Kolasa with WL Plastics. Richard, What is TN-44 and what value does it have to me as an engineer?**

TN-44 is a technical document published by PPI <http://plasticpipe.org/pdf/tn44.pdf> and is a great resource for the municipal leader and engineer who is considering an HDPE solution to the leak, break fix routine. HDPE Pipe is a very stout pipe system with an expected service life well in excess of 100 years. Resistance to disinfectants is one of the factors affecting operational service life of a piping system. HDPE pipes contain additives to provide resistance to the long term oxidizing effects of these disinfectants. Research conducted on HDPE piping compounds using sound scientific principles resulted in a model that projects the performance of PE pipe in chlorinated (i.e. free chlorine and chloramine) potable water distribution and transmission systems.

The model is based on testing in accordance with ASTM F2263, "Test Method for Evaluating the Oxidative Resistance of Polyethylene (PE) Pipe to Chlorinated Water" and projects the performance of PE pipe under specific use scenarios. Download TN-44 from PPI (<http://www.plasticpipe.org>) if you want to check the projected life of HDPE in your system. Almost all utilities will experience an expected life well over 100 years using today's resin mix. For those few utilities where the combination of temperature, residual chlorine and pressure suggest a life less than 100 years, the user may request the 'CC3 package' to get the projected life above 100 years.

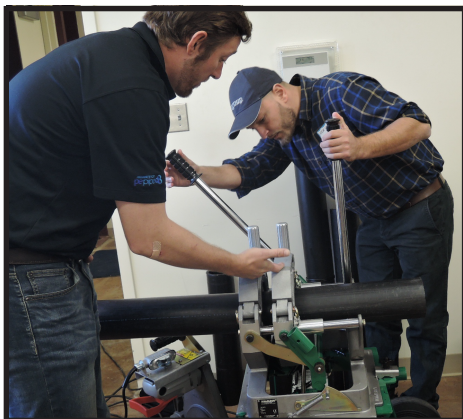
## Sustainable Water Future (continued)

Of course, the Alliance loves it when people talk about more efficient ways to do things in the water business because HDPE is *the* efficient, leak-free conveyance pipe. With 2.1 trillion gallons of water loss each year, efficiency and leak-free conveyance of this precious resource has become a priority. Interestingly, the efficiency goals of the White House Initiative are exactly what HDPE pipe provides to municipal users. For example, Lago Vista, TX, witnessed water loss rates plummet from 36% before HDPE use to 11% after 6 short years of implementation. Additionally, Casselberry Florida has rehabbed 35 miles of failing pipe with trenchless technology and leak-free HDPE that does not tear up streetscapes and grade improvements.

“Through panel discussions, the creation of research and innovation centers, funding, and a public call for action,” the White House Administration is taking an aggressive step in helping to solve water challenges. The Water Summit will feature a demonstration area, panel discussion, roundtables, and plenty of participant interaction. Dyke said, “The Alliance applauds the Administration’s effort. The professionals the White House deployed on the *Water Sustainability Initiative* are impressive, approachable, and committed to this effort. I look forward to see how *Summit Day* and the *Initiative* develop.”

## Total Solutions Roadshow

The city of Irving, Texas, is graciously hosting our next roadshow. Dual tracks will be offered with Track 1 targeting those that have not attended an Alliance event before. Track 2 is developed for experienced HDPE users and will cover large-diameter electrofusion, engineering design with PACE,



BoreAid, and case studies. Click here to sign up: [www.pepipe.org/roadshow](http://www.pepipe.org/roadshow)

*Total Solutions Roadshow fusion expert, Chris Passmore, teaches hundreds of people about fusion each year. The ASTM F2620 standard provides Chris with the content, but his vast fusion knowledge provides the flair.*

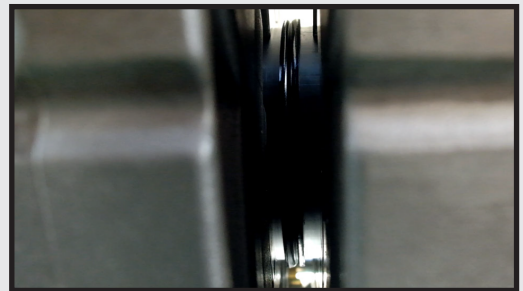
## Innovation Corner

### The Spider Plow

Murphy Pipe & Civil out of Denver plows in HDPE pipe up to 24" in diameter to a depth of 6'. Usually, they are asked to plow in 8" HDPE to a depth of 6 – 8'. This amazing technology and method is responsible for saving water utilities hundreds of thousands of dollars on water supply lines because lineal foot prices are significantly less than traditional installation methods.



*The spider plow can install HDPE pipe up to 24" dia. to a depth of 6'. It saves water utilities big dollars on main replacement and new installations.*



*The key to leak-free conveyance and cutting water loss is heat fusion. Click to watch the “fusion moment.”*

## HDPE Quick Links

- » [Who We Are](#)
- » [PePipe Offerings](#)
- » [Our Website](#)

## Case Studies

Considering an HDPE project and want to see who else has undertaken a similar plan? Go online to <http://www.pepipe.org/case-studies>, and check out the representative cases there. Then, contact your distributor who has access to over 250 more. S/he will send you PDFs of relevant cases.

## Join the #HDPE Wave!



*The Total Solutions Roadshow visited Charlotte and Knoxville this past week. HD Supply's Shirley Bruce worked her magic, and all major utilities and several smaller ones attended to learn more about integrating HDPE pipe into their systems. Join the #Leakfree wave. Peter Dyke (Alliance), Shannon Land (McElroy), Shirley Bruce (HD Supply), and Will Vodak (Strongbridge/TEGA).*



Like us on **Facebook**, and you will automatically be entered into our iPad giveaway!

We are also tweeting regularly about our activities @pepipealliance, where you can find interesting industry stories as well.

Finally, we have a home on **LinkedIn**, and we have begun to share knowledge and encourage HDPE-related conversation.

So quit reading and go **like us on Facebook**. You just might win the iPad!



## Alliance Contact

**Peter Dyke**  
 Executive Director  
[pdye@pepipe.org](mailto:pdye@pepipe.org)

**Alliance for PE Pipe**  
 833 N. Fulton Street  
 Tulsa, OK 74115  
[www.pepipe.org](http://www.pepipe.org)