

Washington Gas

Innovations in Training



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Prevention
4-19-2012





WASHINGTON GAS LIGHT





Innovative and Intuitive Thoughts

- Accelerate the learning process vs. traditional on-the-job field experience
- The PipeTown idea was born while attending an industry conference



Additional Benefits

- There is a realization that the first responders in our area also could benefit from some hands on real experience and understanding natural gas





Locator Awareness and Education

- The Damage Prevention Department became involved in PipeTown through recognition that some of the stakeholders had become complacent while working around natural gas
- The excavation community rarely experiences ignition after a gas damage
- The locators are usually not on the site when a damage occurs and therefore are not aware of what can happen, and how seriously injured someone could become while working around gas pipes





- PipeTown groundbreaking 2007
- Miss Utility Ticket A706600089 March 2007





PipeTown Official Ribbon Cutting Ceremony

- June 2008
- Washington Gas Executives cut the ribbon with PHMSA representatives





Springfield Parkway, PipeTown VA 22151





Training at PipeTown

- Start with classroom education and awareness
 - properties of natural gas
 - how to respond/react around uncontained natural gas
- Discuss damage prevention laws/requirements utilizing a VASCC “train the trainer” graduate
- Perform demonstration of the LEL of natural gas that will get your attention





PipeTown Underground Facilities

- 4 Streets
- 10 Homes (various pressure build-ups)
- Water Meters Covers
- Electric Meters
- Fire Hydrants
- Telephone Pedestals
- 605' WRPD 8" (50psig)
- 362' WRPD 2" (150psig)
- 200' 2" PLA
- 680' ¾" PLA
- 258' ½" PLA
- Gate Valves-Plug Valves-Ball Valves
- Test Stations
- Curb Boxes



Training: Main Repair Emergency Response



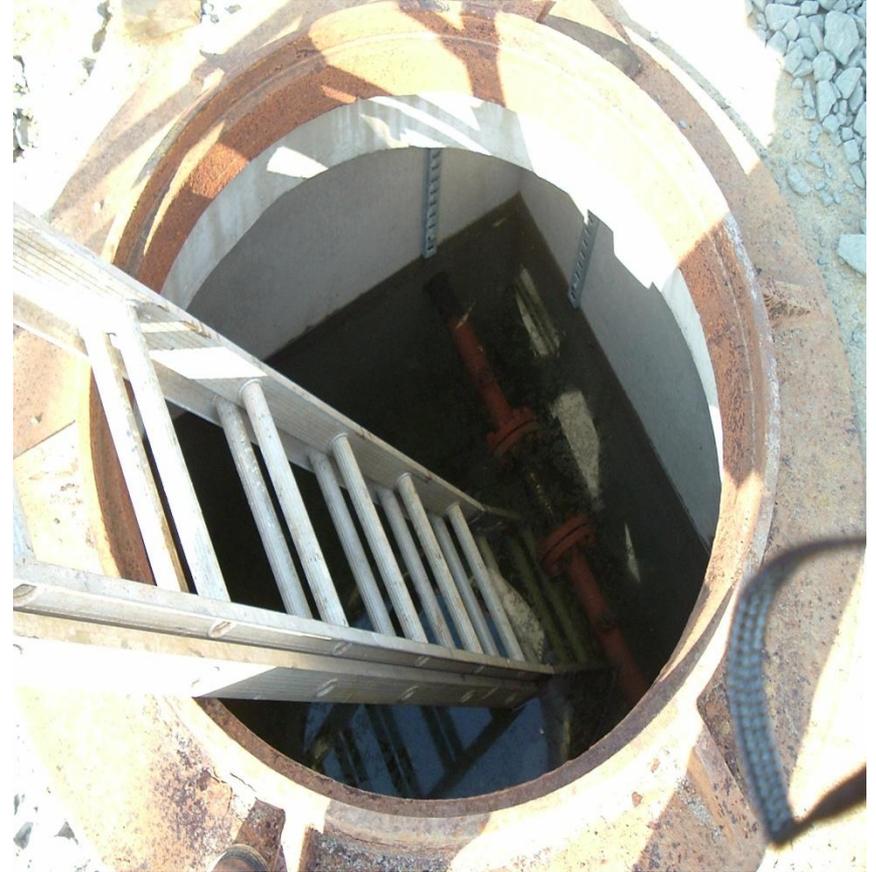


Training: Valve Type and Operation





Training: Confined Spaces





Training: Leak Investigation





Locators Demonstrate Their Ability To Properly Locate





Simulated Broken Gas Pipe



From a Safe Distance you will be able to

“Feel the Heat”





Conclusion

- PipeTown brings a level of high performance training and education in a real life environment
- Since the ribbon cutting, over 2,600 people have been trained in PipeTown
- You are invited...



Training Dates Moving Forward

- April 27, 2012
- May 18, 2012
- June 29, 2012
- July 27 , 2012
- August 31, 2012
- September 28, 2012
- October 26, 2012
- November 16, 2012,
- December 21, 2012

These dates are also listed on the VUPS events webpage:

<http://va811.com/category/events/>



Thank You

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WASHINGTON GAS LIGHT



Excavation & Trench Safety Training



**2012 Virginia Damage Prevention Conference
Virginia Beach, Virginia
April 17-19, 2012**

Jody Harp
Occupational Safety
City of Virginia Beach
Department of Public Utilities



Excavation & Trench Safety Training



The City of Virginia Beach is committed to providing safety training to its members for a wide variety of occupational tasks.

The City has a full time Safety Trainer provided by the Department of Human Resources, Occupational Safety & Health.

The Department of Public Utilities also provides instructor lead safety training to its members.

Excavation & Trench Safety Training



Current training as related to Excavation and Trench Safety.

- 1 Hour classroom lecture, video and class discussion covering all OSHA requirements and specific requirements for CVB.
 - Example. The CVB does not endorse rescue attempts by other members.
 - Self rescue only.
 - Call 911 – Tactical Rescue will respond.



Excavation & Trench Safety Training



Three main points with excavation and trench safety are 4, 5, 6.

4' depth or greater = Ingress/egress access points including ladder safety.

5' depths or greater = sloping, trench box, shoring requirements.

- Per VOSH, all of Tidewater Area is considered Type "C" Soil.

6' depths or greater = fall protection or personal fall arrest system.

Excavation & Trench Safety Training



We want to expand our class room training program to include a field practical.

Recently CVB has met with Coble Trench Safety, in an effort to partner with the CVB.



THE AUTHORITY IN UNDERGROUND EQUIPMENT AND TRAINING



Excavation & Trench Safety Training



We believe Coble Trench Safety is an industry leader in excavation and trench safety, specifically when dealing with trench box safety and shoring.

Our proposed field practical will include actual excavating and trench digging techniques and the safe and proper applications of trench boxes.



Excavation & Trench Safety Training



Short Term Planning

- Provide an advanced Excavation & Trench Safety Class with field practical.
- Utilize the CVB Police Tactical and Training Facility, located in Creeds. Southern part of VB.
- Training will be available to all CVB members who need to be trained.



Excavation & Trench Safety Training

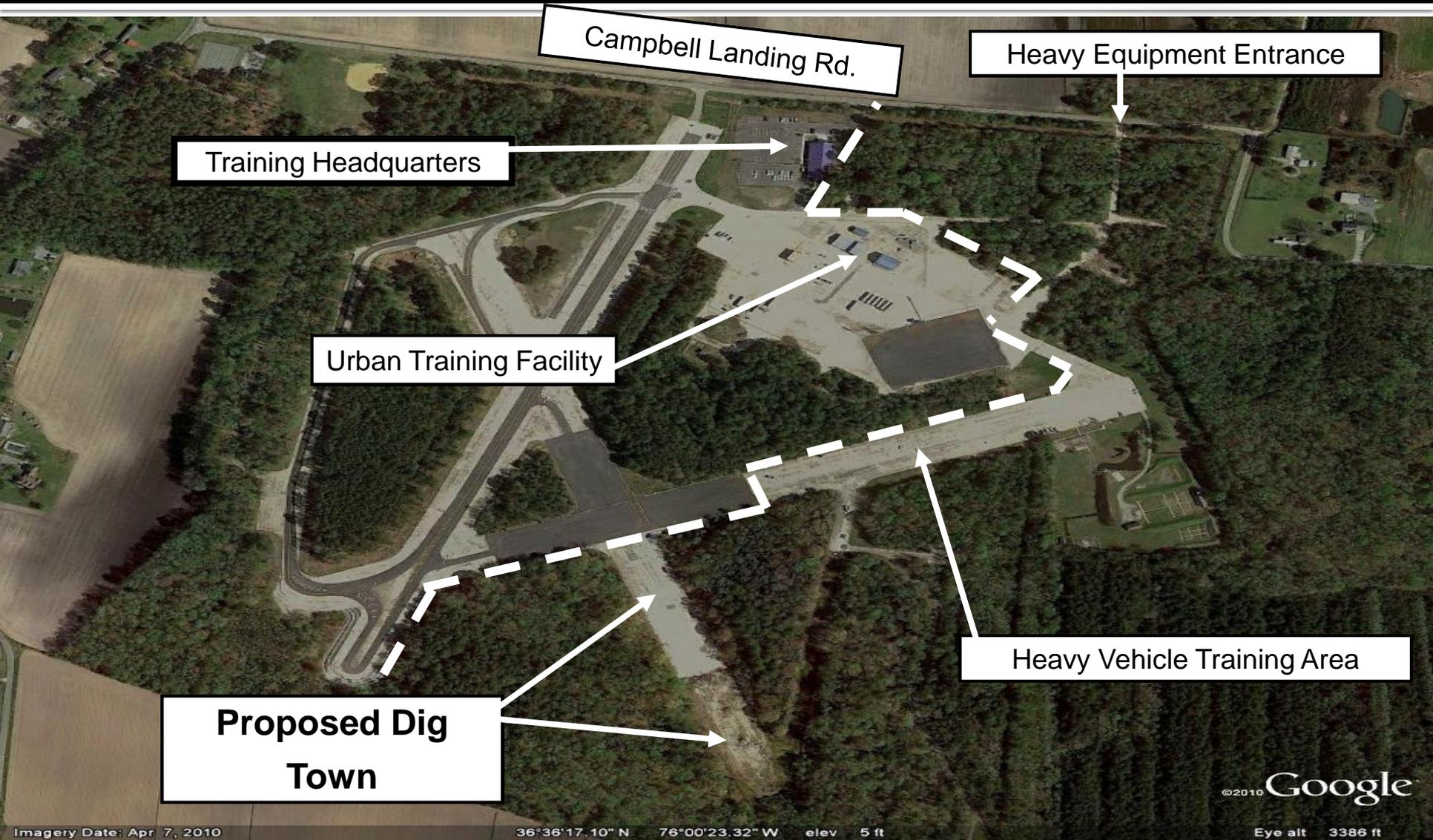


Long Term Planning

- DPU has been working with HR/ Occupational Safety to develop “A Day in the Life of an Excavator” training program.
- The 3 – 4 day training program will include –

| | | |
|---|--|--|
| Trailer Operations and Maintenance Loading / Unloading (TOM) | Confined Space & Lockout/Tag out | Excavation and Trench Safety with Field Practical |
| Miss Utility Awareness & Utility Damage Prevention (Overhead Power Line Safety) | Operator Training (backhoe, excavator, crane) | Site Identification & Hazard Assessment |
| Backfilling Requirements, including protecting existing utilities | Landscaping and Final Clean Up of Site | Proper Housekeeping and OSHA Safety Compliance |

Excavation & Trench Safety Training



Campbell Landing Rd.

Heavy Equipment Entrance

Training Headquarters

Urban Training Facility

Heavy Vehicle Training Area

Proposed Dig Town

Excavation & Trench Safety Training



**Proposed Dig
Town**



Excavation & Trench Safety Training



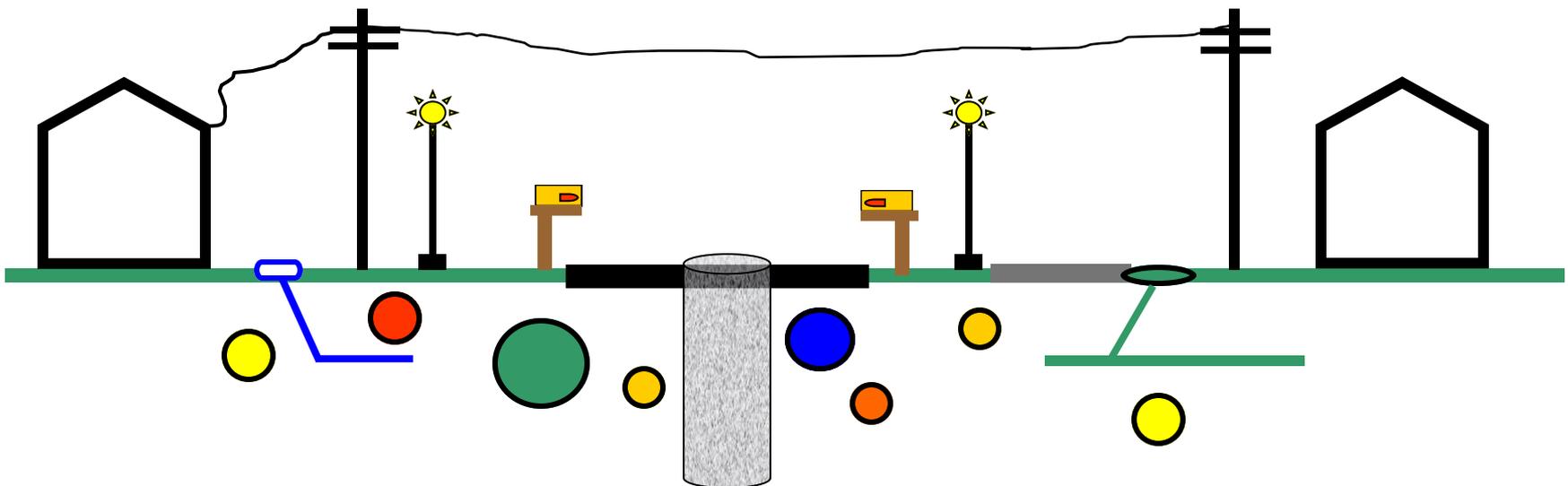
**Proposed Dig
Town**

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Excavation & Trench Safety Training



- Proposed training facility will include all typical utilities (above and below ground), building structures with utility hook ups, mail boxes, power poles with overhead lines, street lights, and sidewalks.
 - No live utilities.
 - Roadway and sidewalk will be simulated, color gravel or other material.
- Our goal is to capture a typical residential street section.
- We'd like to work with other utilities to get old or abandoned parts.



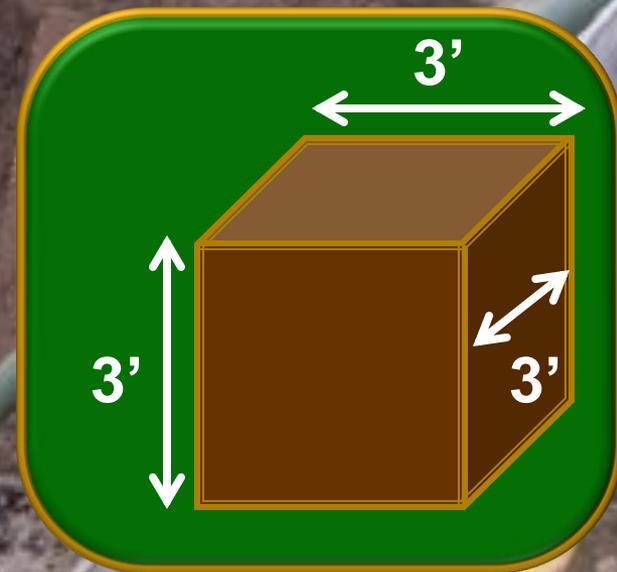
Excavation & Trench Safety Training



Why Train,
It will never
happen to me!

**Two Workers
Are Killed
Every Month
in Trench
Collapses!**

**One Cubic Yard
of Soil Can
Weigh As Much
As A Car.**



Excavation & Trench Safety Training



Case Review:

According to official documents,

- Year – 1985, Virginia Beach.
- Utility contractor installing sanitary sewer pipe.
- Superintendent advised crew that job was behind and that no one was leaving until a certain amount of pipe was installed for the day.
- Trench was 13' plus in depth.

Excavation & Trench Safety Training



- 19 year old male working at the site asked crew leader if depth of the trench was safe.
- Crew Leader advised that he had been doing this type of work for years and that everything was ok, and to get back to work...







**The Police Dept. was asked to
treat site as a Crime Scene.**

Excavation & Trench Safety Training



- This was the first documented fatality involving a collapsed excavation and rescue attempts.
- Due to this event, OSHA, increased their excavation and trench standards.
 - OSHA uses this event to train Compliance Officers.
- One year later, VB was first in Country to develop a Tactical Urban Search and Rescue Unit.
- Many mistakes were made by the volunteers and professional rescue workers.

Excavation & Trench Safety Training



Questions?
Concerns?
Comments?