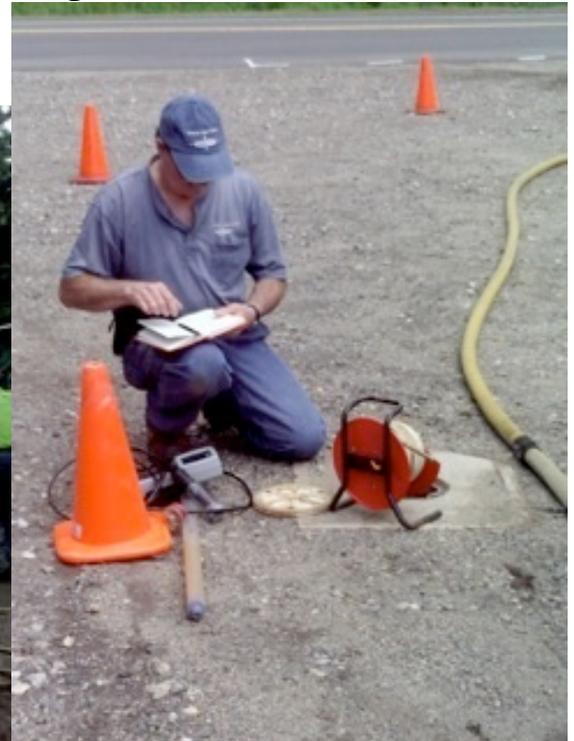


## **TA Report 6.28.12**

**THE FIRE STATION ENVIRONMENTAL REMEDIATION INJECTION** TOOK PLACE ON Thursday June 14, 2012. O'Reilly Talbot and Okun (OTO) teamed with Redox Tech to implement an innovative cleanup of the gasoline remaining under the fire station floor.



Three hundred gallons of a sodium persulfate/calcium peroxide solution were prepared on-site and injected at four points through the Shutesbury fire station floor. Test wells around the station were monitored during the process and air quality in the building was also tested. Water tests were taken prior to the injection to establish a baseline for comparison to future measurements. The injected chemicals become dissolved in groundwater and react with the gasoline contamination causing it to break down. The persulfate and the peroxide stimulate the naturally occurring bacteria making it easier for them to contribute to the gasoline's degradation. The persulfate acts more quickly, and there is longer term benefit from the calcium peroxide. During the injection, the scientists monitor three things: changes in conductivity, temperature and pH. John Henry said what they would see in the wells is a rise in pH which was neutral (close to 7) when prior to the injection. They also expected to see a rise in conductivity because the chemicals increase the groundwater's ability to conduct electricity. They used 2000 pounds of the sodium persulfate and calcium peroxide mixture. According to the OTO Redox team, the injected material has a long active half life of 3-4 months. This is a big improvement on straight hydroperoxide (which they have used at other locations) that only has an active half life of 3-4 days. In 4-8 months they expect to still have active oxidation taking place and then in 8-12 months they expect it will change to anaerobic biodegradation (that is degradation in the absence of oxygen). Sulfate based anaerobic reduction can continue for up to 2 years. The chemicals remain active even as the ground water table moves up and down, through seasonal fluctuations. This process helps to carry the active chemicals into the smear zone where the highest gasoline concentrations are likely to be. With this method up to 80% of the theoretical

reduction can occur in first month, but every situation is different. OTO technicians returned the following Monday to do ground water, water faucet and wetland tests. The results were all good. So far the injection is working as planned And OTO will continue monitoring for the next 5 quarters. They are hoping to see a significant improvement by the end of the first quarter.

**COUNCIL ON AGING (COA) SURVEY** Anyone who is **55** or older is encouraged to fill one out. A copy of the survey is included in this document. You can fill it out and return to me via email. I will print out and add to the survey box. Or hand deliver to town hall.

**SHUTESBURY FARMERS MARKET this SATURDAY, June 28<sup>th</sup>,**

Behind town hall from **8:30am to noon-**

Lettuce, garlic scapes, radishes, flowers, eggs, composted manure, maple syrup.



Shiitake mushrooms, a mushroom log, flowers, Italian murano glass jewelry potholders and sewn tiny purses and crocheted necklace bags

Wooden baskets, lettuce, bok choy, marigold plants, rhubarb, cilantro, eggs

**250th anniversary items**, including DVDs of The Tavern of Time, Roadtown

Review and the great anniversary Parade

and LIBRARY BOOK TABLE

If you have items to sell at the market please email me at [townadmin@shutesbury.org](mailto:townadmin@shutesbury.org) or call 259-1214.

**WIRED WEST COOPERATIVE (FIBER OPTIC TO THE HOME) MET IN SHUTESBURY,** June 23, Saturday at 9:30am in town hall. Delegates from 30 towns gathered at town hall to conduct business. This project is one of the most ambitious and complicated multi-task endeavors ever taken on by a group of volunteers.

Time was taken to clarify Wired West By-Laws that wind energy projects will not be endorsed or implemented by the group. Members want to be sure to stay focused on their overriding charge to bring fiber optic the last mile to the home.

If you have time, skills, and interest please inquire how you can become involved and help us all actualize a public last mile build out. There are forms on the table outside my office. To get an overview of the work go to [www.wiredwest.com](http://www.wiredwest.com).

**Becky Torres, Shutesbury Town Administrator, [townadmin@shutesbury.org](mailto:townadmin@shutesbury.org) 259-1214**

\*\*\*COUNCIL ON AGING SURVEY BELOW\*\*\*  
document file version is attached so you can type in and return

## Council On Aging (COA) Survey

We'd like to hear from you about things you would like to have available in our community and the services and activities you would like to have us offer. Our street list in 2010 tells us we're getting older! 538 people (29%) are listed as being born after 1954. We would like to do more and value your ideas and input. COA members are Muriel Gross, Marilyn Tibbetts, Judy Makepeace, David Dann, and Linda Avis Scott. Please feel free to contact us with any ideas or concerns. Are you, or someone who lives with you, 55 or older? Yes \_\_\_ No \_\_\_

1. Communications:

Do you use a computer? Yes\_\_\_ No\_\_\_ Do you have an email? Yes\_\_\_ No\_\_\_

Would you be interested in a phone tree? Yes\_\_\_ No\_\_\_

a. Do you live alone? Yes\_\_\_ No\_\_\_

b. If yes, would you like a daily call?

c. Would you like a regular COA Newsletter? Yes\_\_\_ No\_\_\_

d. Would a comfortable COA (Senior Lounge) be of interest to you? Yes\_\_\_ No\_\_\_

e. If so, what hours work for you? Suggest days and hours\_\_\_\_\_

f. Would you like to know about available resources and grants available to senior citizens? Yes\_\_\_ No\_\_\_

2. Activities you'd participate in:

Cards, games, puzzles, other ideas? \_\_\_\_\_ Yes\_\_\_ No\_\_\_

Classes in: pottery? Painting? Knitting? Crochet? Sewing? Photography?

Others\_\_\_\_\_

Book group? Exercise groups? Other activities?\_\_\_\_\_

Outdoor activities, walking, hikes, swimming, kayaking, etc.

3. Matches. Would you be interested in getting matched with, through a data base of people who volunteer to provide, someone to help with the following?

**Outdoor chores:** leaf raking, snow shoveling etc.

**Driving:** rides to shopping, appointments.

**Tech support:** programming your gadgets, helping with your computer, etc.

**Other matches** \_\_\_\_\_

4. Meals :

Would you be interested in a brown bag program? Yes\_\_\_ No\_\_\_ Monthly Pot Luck Yes\_\_\_ No\_\_\_

Would you participate in a noon meal? Yes\_\_\_ No\_\_\_

Would you like a morning coffee hour? Yes\_\_\_ No\_\_\_ Afternoon tea? Yes\_\_\_ No\_\_\_

5. Are there Programs/activities you could offer? \_\_\_\_\_

**Thank you for your time and interest. Would you like someone from the COA to contact you about getting involved? If so please write your name and phone number.**

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**Name**

**Phone number**

**Please bring or mail to Town Hall. Thank you for your time and interest.**