

# NEWS Letter

Former Nebraska Ordnance Plant ■ Mead, Nebraska

## Open House Meeting

The U.S. Army Corps of Engineers will be hosting the annual Site Tour and Open House on Wednesday July 20, 2011. Please come join us at the Main Groundwater Treatment Plant at the junction of County Road 6 and County Road F, in Ashland, Nebraska.

The Open House will be from 4:00 PM to 5:30 PM with technical staff in attendance to answer specific questions regarding the former Nebraska Ordnance Plant. Representatives from the U.S. Environmental Protection Agency and Nebraska Department of Environmental Quality are expected to attend as well. A variety of handouts and displays will be available along with refreshments.

Neighbors and local residents are welcome to join us for a guided bus tour that will introduce you to many parts of the groundwater clean-up project. The tour will begin at the Main Groundwater Treatment Plant with a well sampling demonstration at 5:00 PM. We will then take the bus at 5:30 PM to the following locations: Load Line 4 and Advanced Oxidation Process Groundwater Treatment Plants, Load Line 1 Groundwater Treatment Plant, Accelerated Remediated Technologies well location operated by Dow/Genral Dynamics, Pilot Study Preliminary Treatment Areas 1 and 2, the Atlas Missile Area, and the Focused Extraction Well 15. See site tour map on the following page.

For further information regarding the meeting, contact Kristine Stein, Project Manager, at (816) 389-3172.

## Operations and Maintenance Summary

Operation of the Main, Load Line 1, Advanced Oxidation Process, and Load Line 4 Groundwater Treatment Plants have resulted in removal of the following amounts of contaminants of concern from groundwater as of June 30, 2011 since their respective startup:

TCE (trichloroethene) total removed – 18,207 pounds

- Main Groundwater Treatment Plant – 366 pounds
- Load Line 1 Groundwater Treatment Plant - 158 pounds
- Advanced Oxidation Process Treatment Plant - 16,683 pounds
- Load Line 4 Groundwater Treatment Plant – 1,366 pounds

RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine) total removed from the Main Groundwater Treatment Plant – 203 pounds

Total gallons of water treated:

- Main Groundwater Treatment Plant - 10,192,976,000 gallons
- Load Line 1 Groundwater Treatment Plant - 848,902,000 gallons
- Advanced Oxidation Process Treatment Plant 817,083,000 gallons
- Load Line 4 Groundwater Treatment Plant - 252,728,000 gallons



Load Line 1 Process Equipment  
Photo by ECC

## July 2011

For more information or any questions concerning the former Nebraska Ordnance Plant project, please contact:

### Kristine Stein

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or go to the project website at

<http://www.nwk.usace.army.mil/projects/mead>

Information repository documents are available for review at:

### Mead Public Library

316 South Vine Street

Mead, Nebraska 68041

(402) 624-6605

### Hours

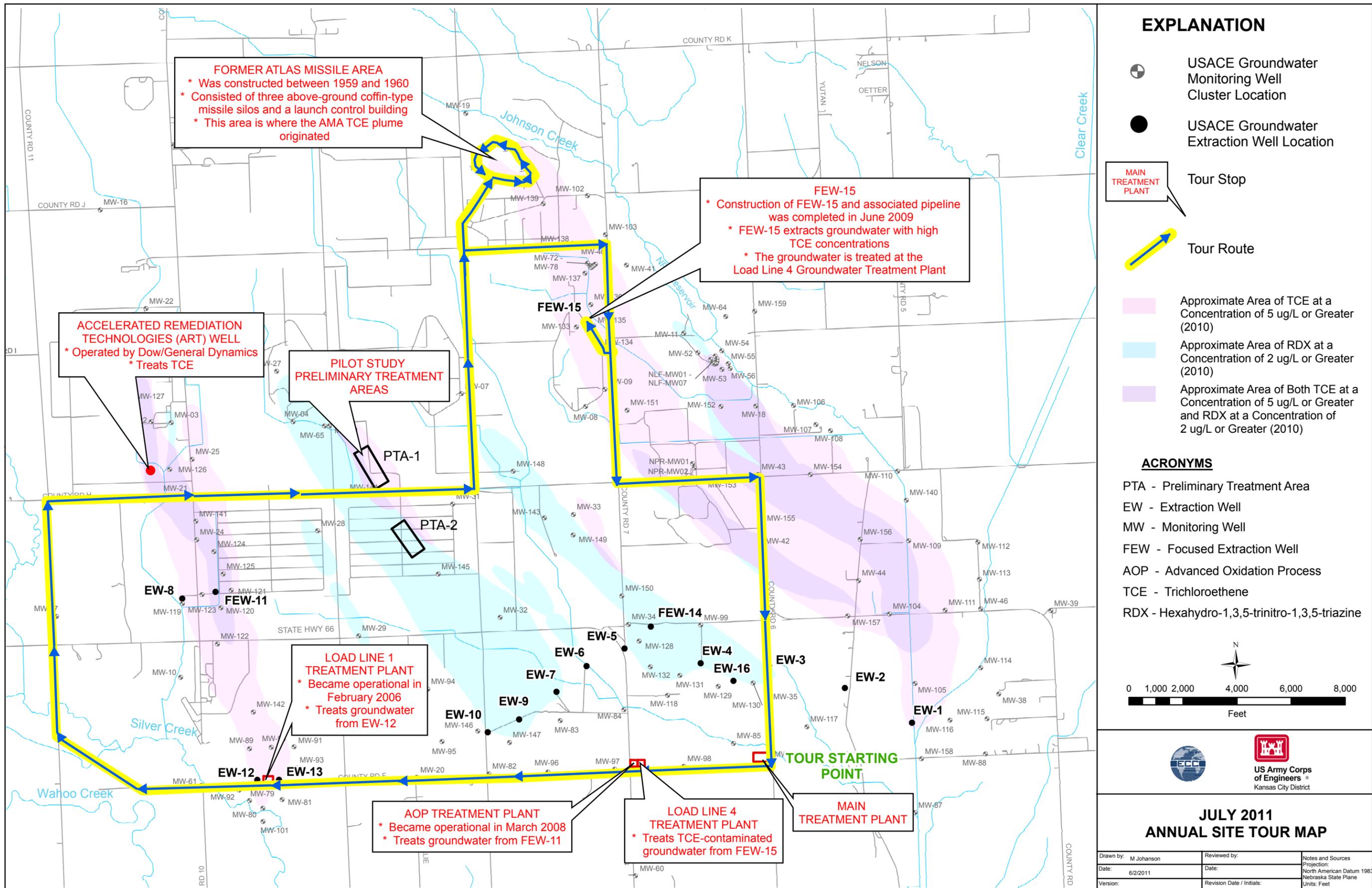
Monday: 2-8 PM

Thursday: 9:30-11:30 AM, and 2-8 PM

Saturday: 9-12 PM



US Army Corps  
of Engineers ®



## Operations and Maintenance Summary continued

The treated water from the Advanced Oxidation Process Groundwater Treatment Plant is sent to the Main Groundwater Treatment Plant for further polishing; therefore the amount of contaminated groundwater treated from the Advanced Oxidation Process Groundwater Treatment Plant is included in the Main Groundwater Treatment Plant discharge quantity. Focused Extraction Wells 11 and 15, which pump groundwater to the Advanced Oxidation Process Groundwater Treatment Plant and Load Line 4 Groundwater Treatment Plant respectively, are installed in high contaminant concentration areas which result in high mass removal.

## New Team Member

We introduced our new engineer to the public last October and now the U.S. Army Corps of Engineers would like to introduce another new team member to the project, Bertie Smisek, a temporary replacement for Cathi Sanders. Bertie is a lawyer from the U.S. Army Corps of Engineers Office of Counsel and while she is new to the project, Bertie has over 4 years of experience with the Corps. So make sure to introduce yourself if you see Bertie at an Open House.

## Website Updates

Have you been to the former Nebraska Ordnance Plant website lately? If you haven't, the team has made a few updates that you might like to know about. Keep an eye out for new articles on the Community Update page because this is one of the few pages that do change occasionally. Also, all the newsletters from the past few years were added to the website instead of it only showing the last year's worth.

The biggest changes that have been made were to the Community Relations page. Now, not only does it tell you when the next Open House is, but it also lists the upcoming presentation topics. Once the Open House takes place, a copy of that Open House presentation is uploaded and available for the public to view. This will be an advantage to those who want to see the presentation, but are not able to attend and also for those that were able to attend the presentation and would like to keep a copy for themselves or to show to others.

We encourage everyone to visit the project's webpage to see what's new as well as making any suggestions with ways the team can improve the website by clicking the 'Send a Comment' button that is on the right side of the main page <http://www.nwk.usace.army.mil/projects/mead/>.

## Energy Audit

An energy audit was conducted at the former Nebraska Ordnance Plant in late 2010 and early 2011. The energy audit was conducted on the four groundwater treatment plants and multiple extraction wells. The audit included a site audit, equipment inventory, and an evaluation of operating conditions. Various pieces of equipment were also monitored to see how much energy they currently use.

Information collected during the audit was used to develop Energy Conservation Measures that could be applied at the site. A payback analysis was also done for each measure to determine how long it would take for the installation cost to equal the savings realized by each measure. The audit resulted in the identification of nine Energy Conservation Measures, six of which were recommended for implementation at the site.

Applying these six Energy Conservation Measures will result in an annual savings of \$44,544, which is approximately 20% of the total utility costs per year at the site. The payback period (break-even point) for putting these measures into practice ranges from zero years up to 8.3 years. The results of the energy audit are being summarized in an Energy Audit Report, which will be finalized in the Summer of 2011 and placed in the Mead Library.

## Wind Turbine Update

The U.S. Army Corps of Engineers has been evaluating the possibility of installing a wind turbine at the former Nebraska Ordnance Plant project site to be an alternate source of power for the treatment plants. These evaluation areas included wind resource assessments, microwave interference analysis, wildlife assessment, wetlands assessment, Shadow Flicker Impact Study, Noise Impact Study, Zone of Visual Influence Study, and Federal Aviation Administration (FAA) and National Telecommunications and Information Administration (NTIA) clearances. Several sites were considered within the project area and two were chosen to be evaluated further as ideal locations for the turbine. The first location is by the Nebraska National Guard facility approximately 3 miles southeast of Mead and the second is located at the Nebraska National Guard's Utes 2 Facility at 1249 County Road 10 approximately 2 ½ miles south of Mead. From the findings, the first location was deemed unacceptable due to numerous site activities; the second site was determined to be acceptable and initial access agreements to this property have been developed. Unfortunately, the ability to move forward with designing and constructing the wind turbine is dependent on funding which is not available at this time. However, the Corps is compiling all of the data that has been collected to date so that once funding becomes available the process can move forward.