

NEWS Letter

Former Nebraska Ordnance Plant ■ Mead, Nebraska

Open House Meeting

The U.S. Army Corps of Engineers will host the Spring Open House on Wednesday April 21, 2010 at the Yutan VFW Country Club in Yutan, Nebraska. The Yutan VFW Country Club is located south of Highway 92 at 1581 Yutan Road.

The open house meeting is from 4:00 p.m. to 8:00 p.m. 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. Additionally, a brief informational presentation will be given on recent sample results. The presentation will be given hourly at 5:00, 6:00, and 7:00 p.m.

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

Operations and Maintenance Summary

Operation of the Main Treatment Plant, Advanced Oxidation Process Treatment Plant, and Load Line 1 Groundwater Treatment Plant have resulted in removal of the following amounts of contaminants of concern from groundwater as of March 31, 2010 since their respective startup:

TCE (Trichloroethene) total removed – pounds

- Main Treatment Plant - 356 pounds
- Load Line 1 Groundwater Treatment Plant - 95 pounds
- Advanced Oxidation Process Treatment Plant - 12,215 pounds

RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine) total removed from the Main Treatment Plant – 163 pounds

Total gallons of water treated

- Main Treatment Plant - 8,914,514,000 gallons
- Load Line 1 Groundwater Treatment Plant - 658,715,000 gallons
- Advanced Oxidation Process Treatment Plant - 515,408,000 gallons

The treated water from the Advanced Oxidation Process Plant is sent to the Main Treatment Plant to ensure the water meets discharge requirements. The amount of contaminated groundwater treated from the Advanced Oxidation Plant is included in the Main Plant discharge quantity. The high mass removal generated by the Advanced Oxidation Plant is due to the fact that Focused Extraction Well 11 which pumps groundwater to the plant, is installed in a high contaminant concentration area at the Load Line 1 plume.



Main Treatment Plant, Photo by ECC.

Pre-Pilot Study Investigation

The Corps of Engineers initiated a Pre-Pilot Study Investigation on the Load Line 2 groundwater plume at the former Nebraska Ordnance Plant on March 1, 2010. This investigation is examining the feasibility of a

April 2010

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

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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

Tuesday: 9-11 AM, 2-7 PM

Wednesday: 9-11 AM

Thursday: 9-11 AM, 2-7 PM

Saturday: 9-1 PM



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remediation program to treat the interior areas of the plume with higher levels of RDX and/or TCE contamination. More specifically, it is examining if an in-ground remediation system will be useful in lowering groundwater contamination which in turn would help reduce the overall remediation time. The investigation includes groundwater sampling of existing monitoring wells, monitoring of groundwater levels, direct push groundwater sampling for a variety of compounds and soil logging and profiling. Field activities are planned through the month of March 2010, and will be followed by a report of findings in the Fall of 2010.



Direct Push Photo by ECC, 2010.

Underground Storage Tank Removal Summary

Removal of the three underground storage tanks by Kingston Environmental is currently underway at the former Nebraska Ordnance Plant. Two of the tanks are located at Load Line Three and the third one is by the Agronomy Building. The tank removal is being successfully accomplished with the assistance of the University of Nebraska-Lincoln. Their cooperation and support is allowing for quick and efficient removal of the tanks and minimal interruption of university operations. Soil samples will be collected and analyzed as excavation takes place to ensure Nebraska Department of Environmental Quality standards are met. All three tanks are scheduled to be removed and the excavations backfilled with clean soil by the end of April 2010. The tank removal sites will be included on the July 2010 site tour.



Underground Storage Tank Removal. Photo by Kingston Environmental.

Wind Turbine

Over the past few months, the Corps of Engineers has begun to explore the possibility of placing a wind turbine on site to help reduce power costs for the four groundwater treatment plants and 15 extraction wells. Five initial studies have been performed; a Preliminary Wind Assessment, a Preliminary Wildlife Assessment, a filing with National Telecommunications and Information Administration/Federal Aviation Administration, a Microwave Analysis, and a Preliminary Financial Analysis to determine the feasibility of beginning large-scale wind turbine evaluation and study.

The studies so far show that the wind project is a viable option. The next step involves erecting a meteorological tower to measure real time wind data. Wind data will be collected for a minimum of six months to a year, depending on the actual wind data versus the study's predicted data. The real time data will be evaluated along with the wind assessment and a detailed financial analysis to determine the feasibility of operating a wind turbine.

Based on current electricity usage at the former Nebraska Ordnance Plant, the Corps of Engineers is evaluating the use of a 1.5 Megawatt turbine. An example of a 1.5 Megawatt turbine is one that is located at the Massachusetts Military Reservation on Cape Cod, MA. This particular turbine is used to offset the majority of energy used for two major groundwater treatment plants at the Reservation.



Massachusetts Military Reservation, Cape Cod, MA, Photo by ECC.