

# NEWS Letter

Former Nebraska Ordnance Plant ■ Mead, Nebraska

## Open House Meeting

The U.S. Army Corps of Engineers will host the Winter Open House on Wednesday January 19, 2011 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 updated handouts and new displays will be available along with refreshments. Additionally, a brief informational presentation will be given on Operable Unit 3 followed by a short discussion on the Military Munitions Response Program. The presentations 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 Groundwater Treatment Plant, Advanced Oxidation Process Treatment Plant, Load Line 4 Groundwater Treatment Plant, and Load Line 1 Groundwater Treatment Plant has resulted in removal of the following amounts of contaminants of concern from groundwater as of December 31, 2010 since their respective startup:

TCE (Trichloroethene) total removed – 16,213 pounds

- Main Groundwater Treatment Plant – 362 pounds
- Load Line 1 Groundwater Treatment Plant - 125 pounds
- Advanced Oxidation Process Treatment Plant - 14,826 pounds
- Load Line 4 Groundwater Treatment Plant – 899 pounds

RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine) total removed from the Main Groundwater Treatment Plant – 187 pounds

Total gallons of water treated:

- Main Groundwater Treatment Plant - 9,709,171,000 gallons
- Load Line 1 Groundwater Treatment Plant -766,411,000 gallons
- Advanced Oxidation Process Treatment Plant -685,941,000 gallons
- Load Line 4 Groundwater Treatment Plant -135,117,000 gallons



Main Groundwater Treatment Plant Piping, Photo by ECC.

The treated water from the Advanced Oxidation Process Plant and the Load Line 4 Groundwater Treatment Plant is sent to the Main Groundwater Treatment Plant for further polishing and the amount of contaminated groundwater treated from both plants are

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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](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: 2-7 PM

Thursday: 9:30-11:30 AM, and 2-7 PM

Saturday: 9-12 PM



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included in the Main Groundwater Treatment Plant discharge quantity. Focused Extraction Wells 11 and 15, which pump groundwater to the Advanced Oxidation Process Plant and Load Line 4 Groundwater Treatment Plant respectively, are installed in high contamination concentration areas which result in higher mass removal.

## Main Groundwater Treatment Plant Expansion

The Corps of Engineers is nearing completion of construction on an addition to the Main Groundwater Treatment Plant office space at the former Nebraska Ordnance Plant. The 30-foot by 65-foot expansion will allow for the addition of much needed onsite storage and a separate sampling handling area. This is due to the expanding operations and increased personnel performing work at the site. Construction on the expansion began on August 30th of this year and is anticipated to be completed by the end January 2011.



Main Groundwater Treatment Plant Expansion, Photo by ECC.

## Operable Unit 3 History and Update

Remedial investigations have been conducted since 1995 at Operable Unit 3, which includes areas within the former Nebraska Ordnance Plant that may have been impacted by previous Department of Defense activities. A baseline human health risk assessment conducted in 2000 used data from 1995 through 1999 and indicated little to no risk to human health or the environment in most of the Operable Unit 3 areas. The investigations identified that antimony in soils exceeded the screening limit at Load Line 1, Load Line 4, and the Potential Landfill

Area. These soils were excavated and taken to an off-site disposal facility during a removal action conducted from 2007 to 2008.

A supplemental remedial investigation to address remaining environmental concerns at Operable Unit 3 is currently underway. This ongoing investigation includes soils analyzed to determine metal concentrations at a former on-site landfill (North Burning Ground) and a Potential Landfill Area. This investigation also includes indoor air, soil gas, and outdoor air sampling for analysis of TCE and its degradation products at four buildings above the Load Line 1 TCE groundwater plume. Soil and air samples collected in September and November 2010 are currently being analyzed. The results will be used in a baseline human health risk assessment to calculate risks from exposure to: 1) the North Burning Ground and Potential Landfill Area soils, and 2) indoor air in the four buildings sampled. The investigation will also include an updated baseline human health risk assessment for Johnson Creek, Clear Creek, and Silver Creek using surface water sample data collected as part of the Operable Unit 2 Groundwater Monitoring Program. Field sampling and risk assessment results will be summarized in the Supplemental Remedial Investigation Report. Completion of this report will be followed by a Supplemental Feasibility Study (if necessary), a Proposed Plan, and a Record of Decision for Operable Unit 3.



Operable Unit 3 Soil Core Sampling in the Potential Landfill Area, September 2010, Photo by GEO