

New Extraction Well EW-18 Location

Groundwater modeling activities associated with the 2012 Containment Evaluation predicted that at some time in the future, a portion of the Load Line 2 groundwater plume with RDX concentrations greater than the Final Target Groundwater Cleanup Goal (2 micrograms per liter) would move past existing extraction wells, EW-7 and EW-9. As a result of this, the U.S. Army Corps of Engineers will install a new extraction well, EW-18, between EW-7 and EW-9. EW-18 will supplement the existing extraction wells as part of the Load Line 2 groundwater plume containment system. The location of EW-18 was selected based upon previous direct-push investigations, groundwater model simulations, and a geophysical survey performed in the area between EW-7 and EW-9. After the location of EW-18 was determined, a test hole and observation well were installed near the new EW-18 location. The test hole allowed for the collection of additional data so that the design of the extraction well could be finalized. Installation of extraction well EW-18 is estimated to begin late this Fall.



EW-18 Pump Test



Drill Rig for Extraction Well EW-18 Test Hole



Collecting Geologic Information from EW-18 Test Hole



New USACE Project Manager

Starting in May, Mr. Edwin Louis will replace Kristine Stein as Project Manager for the former NOP Project. Mr. Louis has been a project manager for the USACE for 19 years. He has been involved in the project in the past as a project manager at NDEQ from 1992 to 1996 and then again as a USACE technical manager from 1997 to 2003. His debut

will be at the open house site tour on May 27th, so make sure to come and introduce yourself.

Open House Meeting

The U.S. Army Corps of Engineers will host the annual Site Tour and Open House on Wednesday, May 27, 2015. 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 4:30-5:30 p.m. and a Site Tour from 5:30 p.m. until approximately 7:30 p.m. Representatives from the U.S. Environmental Protection Agency and Nebraska Department of Environmental Quality are expected to attend as well.

Please plan on attending our Open House and Site Tour for handouts, light refreshments and a poster presentation at 5:00 p.m. on the process of selecting and then installing the new extraction well, EW-18. Project personnel will be available to provide and interpret water sampling results and other site data from 4:30-5:30 p.m. Neighbors and local residents are welcome to join us for a guided bus tour starting at 5:30 p.m. that will introduce you to many parts of the groundwater clean-up project.

The tour will begin at the Main Groundwater Treatment Plant and we will then take the bus to the following locations: Load Line 4 and Advanced Oxidation Process Groundwater Treatment Plants, EW-5 pump house, the former Atlas Missile Area, and focused extraction well FEW-15. The tour will end at approximately 7:30 p.m. at the Main Groundwater Treatment Plant. See site tour map on the following page.

Open House Meeting (continued)

For further information regarding the meeting, contact the U.S. Army Corps of Engineers Project Manager at (816) 389-3563.

Operations and Maintenance Summary

Operation of the Ultraviolet treatment systems and the 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 March 31, 2015, since their respective startup.

TCE (trichloroethene) removed:

- Load Line 1 Groundwater Treatment Plant – 961 pounds
- Advanced Oxidation Process Treatment Plant – 28,643 pounds
- Load Line 4 Groundwater Treatment Plant – 3,883 pounds

RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine) removed:

- Ultraviolet Treatment Systems – 50 pounds

Gallons of water treated since startup:

- Load Line 1 Groundwater Treatment Plant – 1,652,608,000 gallons
- Advanced Oxidation Process Treatment Plant – 1,667,027,000 gallons
- Load Line 4 Groundwater Treatment Plant – 1,198,602,000 gallons
- Ultraviolet Treatment Systems – 938,000,000 gallons

May 2015

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

Project Manager
U.S. Army Corps of Engineers
Kansas City District
601 East 12th Street
Kansas City, Missouri 64106
Phone: (816) 389-3563

or go to the project website at:

<http://www.nwk.usace.army.mil/Missions/Environmental/EnvironmentalProjects/NOP.aspx>

Information repository documents are available for review at:

Mead Public Library

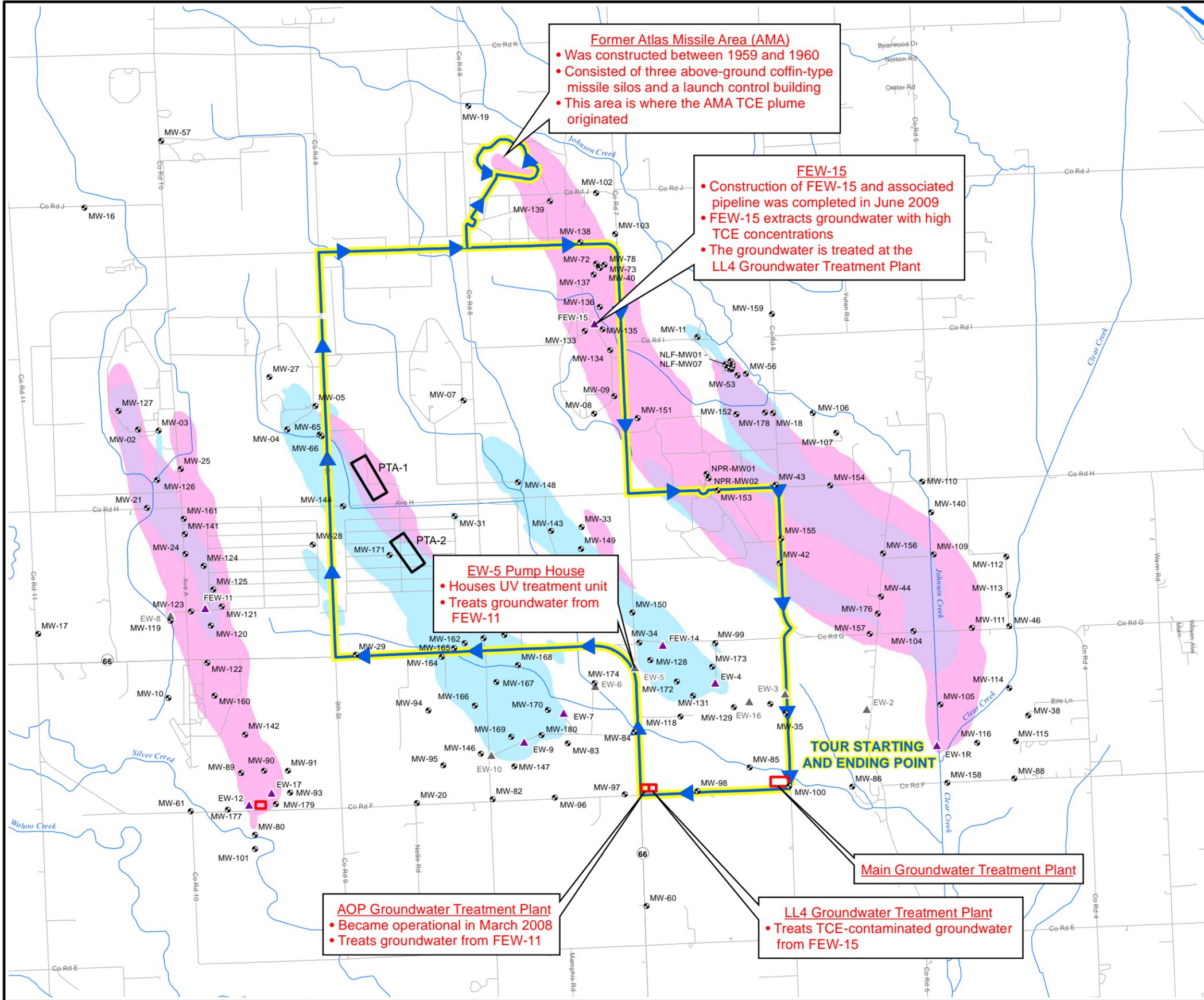
316 South Vine Street
Mead, Nebraska 68041
Phone: (402) 624-6605

Hours

Tuesday: 10 a.m. - 1 p.m. and 2-6 p.m.
Wednesday: 4-8 p.m.
Thursday: 10-11 a.m. and 2-6 p.m.
Saturday: 10 a.m. - 2 p.m.



US Army Corps of Engineers ®



Legend

- USACE Groundwater Monitoring Well/ Well Cluster
- Groundwater Extraction Well
- Groundwater Extraction Well (Inactive)
- Groundwater Treatment Plant

Contaminant Plume

- Approximate Area of TCE at a Concentration of 5 µg/L or Greater (2013)
- Approximate Area of RDX at a Concentration of 2 µg/L or Greater (2013)
- Approximate Area of Both TCE at a Concentration of 5 µg/L or Greater and RDX at a Concentration of 2 µg/L or Greater (2013)
- Tour Route

Main Groundwater Treatment Plant
 Tour Stop

NOTES:

AOP = Advanced Oxidation Process
 EW = Extraction Well
 FEW = Focused Extraction Well
 LL = Load Line
 MW = Monitoring Well
 PTA = Preliminary Treatment Area
 TCE = trichloroethene
 UV = ultraviolet
 RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
 µg/L = micrograms per liter

Former Nebraska Ordnance Plant
Mead, Nebraska
Open House

**May 2015
Annual Site Tour Map**

Drawn by: RR	Reviewed by: LT	Source: HGL, ECC, NAIP (2012)
Date: 04/16/2014	Date: 04/16/2014	Projection: NAD 1983
Version: 2	Revision Date / Initials: 04/17/2014 RR	Nebraska State Plane
		Units: Feet

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