

Roosevelt Irrigation District Initiates Pilot System To Clean Up Contaminated West Phoenix Groundwater

The RID-95 Wellhead Pilot Treatment System (Pilot System) has been initiated to accomplish the following:

- Evaluate the effectiveness of liquid-phase granular activated carbon (IGAC) technology in removing the mixture of volatile organic compounds (VOCs) present in the West Van Buren Area (WVBA) groundwater plume that are contaminating Roosevelt Irrigation District (RID) wells;
- Evaluate two different types of IGAC for removal efficiency, bed life and other operational performance factors;
- Evaluate the feasibility and constraints of wellhead treatment for consideration at other impacted RID wells;
- Refine capital and operations and maintenance (O&M) cost estimates to support subsequent response actions; and,
- Provide near-term capture and control of a substantial amount of the contaminants impacting RID's water supply;

After review of RID's Pilot System Proposal by the Arizona Department of Environmental Quality (ADEQ), RID contracted with Spinnaker Holdings, LLC of Denison, Texas, to design, build and operate the facilities necessary to implement the Pilot System.

Visit wvgroundwater.org/media to download the complete Pilot System Proposal.

WQARF Site Has Long History

The WVBA WQARF Site was first listed by ADEQ in 1987 as a result of the many decades of groundwater contamination from industrial chemicals, solvents and petroleum products. After extensive soil and groundwater sampling, ADEQ's draft 2008 Remedial Investigation report identified numerous contaminants above regulatory limits, and also presented the initial list of potential sources and parties legally responsible for the groundwater contamination.

RID was formed in 1927 and operates more than 100 water wells in western Maricopa County. Over 30 of the wells are located in the WVBA WQARF State Superfund Site, where at least 20 wells have been impacted and more than 10 additional wells are threatened by the 15-mile plume of contaminated groundwater.

The proposed Pilot System is part of an Early Response Action designed to address the impacts to the most highly-contaminated RID wells. The ERA will also protect human health and the environment, while preventing the spread of the contaminants, and eventually eliminating contamination of the underground aquifers.

What is the West Van Buren Area (WVBA) WQARF Site

The WVBA WQARF (State Superfund) Site, first listed in 1987, is located in west Phoenix and is approximately bordered on the North by McDowell Road; by Buckeye and Lower Buckeye Road on the South; 7th Avenue on the East and beyond 79th Avenue on the West. To see Plume Map, go to: www.wvgroundwater.org

What pollutants are involved?

Industrial chemicals such as:
trichloroethene (TCE)
tetrachloroethene (PCE)
1,1-dichloroethene (DCE)
1,1-dichloroethane (DCA)
MTBE

Who will pay for the cleanup?

More than 60 entities – corporate, governmental and private – have been identified as liable parties for contributing to the groundwater contamination.

How can I get more information?

Visit www.wvgroundwater.org or call Lawrence Moore at 480-980-1933.



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