



July 2014 Project Update Soil Vapor Extraction System, Roxana, Illinois

WHO: Shell Oil Products US

WHAT: The soil vapor extraction system installed by Shell inside the Wood River Refinery fence line extends north from, and including, the Roxana Public Works Yard to approximately First Street. With the addition of the 5 northernmost wells last fall, the system includes 39 vapor extraction wells (marked in blue on the map) and over 60 soil gas monitoring locations (green map markers) to verify system effectiveness.

Since system operations began in January 2012, the system has been effective at removing underground hydrocarbon vapors as evidenced by reduced concentrations detected during monitoring. Based on data collected from the monitoring locations which indicated a reduction in vapor concentrations, several shallow vapor extraction wells were shut off in 2013. This has had the benefit of redirecting vacuum to other parts of the system. When a shallow extraction well is shut off, the monitoring frequency at nearby monitoring points is increased to confirm that vapor concentrations do not rise above Illinois EPA standards. This increased monitoring continues for several weeks after a well is shut off. If vapor concentrations are detected above Illinois EPA standards, the shut off wells will be turned back on. If vapors remain at concentrations within Illinois EPA standards, the wells will remain off and monitoring at the nearby monitoring points will return to the same frequency as the remainder of the system.

Several vapor extraction wells located inside the Refinery between approximately 5th and 8th Streets have been shut off since October 2013. As a result, Shell's contractors have been more visible in this area conducting the increased monitoring over the past winter.

As mentioned in previous fact sheets, Shell purchased three properties near the intersection of 4th and Chaffer Streets to enhance its remediation efforts in that area. Shell is currently working to add soil vapor extraction wells on these properties to increase vapor extraction from this area. This work is planned to continue over the next few months.

CONTACT: If you would like more information or have any comments or concerns about this project, please contact URS's project outreach coordinator, Bob Billman at (314) 743-4108. You may also contact Illinois EPA's Mara McGinnis at (217) 524-3288, or Gina Search at (618) 346-5157.

FOR MORE INFORMATION: Please visit our web site for more information concerning Shell's environmental investigations and remedial efforts in Roxana: <http://roxanainvestigation.urs-stl.net/>. Hard copies of key remedial plans and reports can also be found at the Roxana Public Library.

