

Public Notice
Explanation of Significant Difference
For
354 Area Solvent Detections Operable Unit 005
Fort Riley, Kansas

Per 40 Code of Federal Regulations 300.435(c)(i), an Explanation of Significant Difference was necessary as a result of alteration of site conditions that diverged from the Record of Decision.

The Record of Decision (ROD) for the site was signed on July 3, 2006. The selected remedy was monitored natural attenuation (MNA) with institutional controls (ICs). The MNA portion was to use natural degradation processes to reduce the contamination from the tetrachloroethylene (PCE) to levels below the Maximum Contaminant Level (MCL). The ICs were to prevent the utilization of ground water on site for drinking water and to restrict use of the site to non-residential.

Per the ROD, ground-water sampling was required as the remedy left contaminants on site above the MCL. The contaminants had shown a continuous decreasing trend since 2008. Ground-water sample events in March and July 2014 has significant increases in the concentration of the PCE in three terrace monitoring wells. Based on these increased values, it was determined that an ESD was necessary to propose a remedy to address the change.

The proposed course of action is to install a line of GeoProbe© injections with overlapping radii of influence up gradient and down gradient of each of the three terrace monitoring wells. A substance such as emulsified soybean oil will be injected into the soil from surface to the top of the ground water to enhance soil microbial activity. A year of quarterly ground-water sampling at seven monitoring wells will occur. The data will be analyzed to determine the further sampling and/or treatment requirements.

A copy of the ESD is available in the Administrative Record located at 407 Pershing Court, Fort Riley, Kansas. Contact Dr. Richard Shields at 785-239-3194 for any questions.