



U.S. DEPARTMENT OF
ENERGY

Legacy
Management

Weldon Spring, Missouri, Site

Air, Groundwater, and Surface Water Monitoring

This site is managed by the U.S. Department of Energy Office of Legacy Management.

Air Monitoring

A continuously operating air-monitoring network was in place from 1986 through 2000 for the Weldon Spring Site Remedial Action Project (WSSRAP) to measure levels of gamma radiation, radioactive dust particles, radon gas, and asbestos. The U.S. Department of Energy (DOE) ceased perimeter and offsite air monitoring as of December 31, 2000, when remediation of contaminated materials was essentially complete and measurements were indistinguishable from background.

Groundwater and Spring Monitoring

Groundwater has been routinely monitored since 1986. Separate groundwater monitoring programs were established for the Chemical Plant and Quarry sites because of geographic separation and differences in the hydrogeologic

features that influence groundwater flow. Approximately 100 monitoring wells and 5 local springs (points where groundwater emerges at the surface) are maintained and most are monitored for chemical and radiological contaminants on a specified basis. Results of groundwater sample analyses are used to assess environmental impacts and evaluate the effectiveness of remedial actions at the sites. A disposal cell groundwater monitoring program was also established and incorporates groundwater, spring, and cell leachate monitoring during the post-closure period so that a potential breach of the disposal cell liner could be detected early and addressed quickly. Results for these sampling events described above are summarized in the site annual report.



Drilling to Establish a Monitoring Well During Cleanup Activities



Current Monitoring Well Activities at the Weldon Spring Site

Surface Water Monitoring

The Weldon Spring Site surface water monitoring network consists of locations at streams and lakes near the former Chemical Plant and the Quarry. Surface water at these locations is monitored quarterly for the presence of uranium. On an as-needed basis, leachate from the disposal cell Leachate Collection and Removal System is pumped from the sump, pretreated and transported to the Metropolitan St. Louis Sewer District (MSD) for final treatment in its Bissell Point wastewater treatment facility. Samples are collected from the treated water being transported to MSD, and the results are transmitted to MSD as required by the agreement between DOE and MSD. Results for these sampling events described above are summarized in the site annual report.

Contacts

Documents related to the Weldon Spring Site are available on the DOE Office of Legacy Management website at <http://www.lm.doe.gov/weldon/sites.aspx>.

For more information about DOE Office of Legacy Management activities at the Weldon Spring Site contact:

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