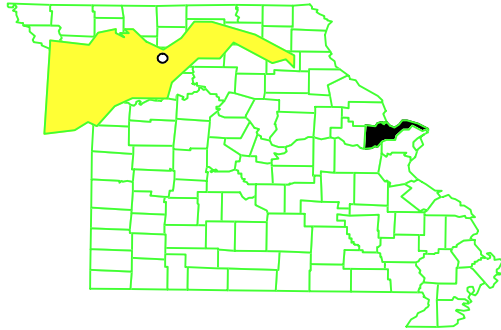


**WELDON SPRING
QUARRY/PLANT/ PITTS
(USDOE/ARMY)
MISSOURI
EPA ID# MO3210090004**

**EPA Region 7
City: 25 miles west of St. Louis
County: St. Charles County
Other Names: Weldon Spring-Raffinate
Pits,
Weldon Springs Chemical Plant**

10/13/2011



SITE DESCRIPTION

The Weldon Spring Site is located in St. Charles County, Missouri, about 30 miles (48 kilometers [km]) west of St. Louis. The site comprises two geographically distinct Department of Energy (DOE)-owned properties: the Weldon Spring Chemical Plant and Raffinate Pit Sites and the Weldon Spring Quarry. The Chemical Plant is located about 2 miles (2.3 km) southwest of the junction of Missouri State Route 94 and U.S. Highway 40/61. The Quarry is about 4 miles southwest of the Chemical Plant. Both sites are accessible from Missouri State Route 94.

During the early 1940s, the Department of the Army acquired 17,232 acres (6,974 hectares [ha]) of private land in St. Charles County for construction of the Weldon Spring Ordnance Works facility. The former Ordnance Works site has since been divided into several contiguous areas under different ownership. Current land use of the former Ordnance Works area includes the DOE Weldon Spring Chemical Plant and Weldon Spring Quarry, the U.S. Army Reserve Weldon Spring Training Area, Missouri Department of Conservation (MDC) and Missouri Department of Natural Resources (MDNR) Division of State Parks managed lands, Francis Howell High School, a Missouri Department of Transportation (MoDOT) maintenance facility, the Public Water Supply District #2 (formerly St. Charles County) water treatment facility, a law-enforcement training center, the village of Weldon Spring Heights, and a University of Missouri research park.

The Chemical Plant and Quarry areas total 228.16 acres (92.33 ha). The Chemical Plant property is located on 219.50 acres (88.83 ha); the Quarry occupies 8.66 acres (3.50 ha).

Site Responsibility:

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This site is being addressed by the USDOE Office of Legacy Management. Site information is available at: <http://www.lm.doe.gov/>

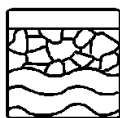
NPL LISTING HISTORY

Proposed Date: 10/15/84

Final Date: 07/22/87

Deleted Date:

THREATS AND CONTAMINANTS



Remaining contaminated source materials are contained in the on-site disposal cell. Residual contamination exceeding health-based levels remains in the Southeast Drainage and in the shallow groundwater. Potential exposures are being controlled through land and resource use restrictions.

CLEANUP APPROACH

Response Action Status

Immediate Actions: The DOE began interim cleanup actions at this site in 1987, which have included removing overhead piping and asbestos, consolidating and storing containerized chemicals, removing electric lines and poles, cleaning up radioactive soil from Army Reserve properties, dismantling the chemical plant structures, removing PCB transformers, constructing stormwater diversion dikes to reduce off-site migration, and constructing two wastewater treatment plants. Approximately 13,000 gallons of PCB fluids and flushing solutions were removed and transported to an off-site incineration facility. All 40 buildings and other structures were dismantled and placed in temporary storage. Two water treatment plants were built to manage the treatment and discharge of stormwater and impounded surface water.

Quarry Bulk Waste: In 1990, the DOE chose to excavate and to temporarily store quarry bulk wastes on site. Wastes were transported over a haul road constructed solely for this purpose. Over 110,000 cubic yards of equipment, soil, drums, and debris were placed in temporary storage requiring over 10,000 roundtrips. The wastes were subsequently placed in the permanent on site disposal cell.

Source Control, Treatment, and Disposal: In 1986, the DOE began an investigation to determine the nature and extent of contamination of the air, lakes and streams, sludges, and 40 structures, and to identify cleanup alternatives. The studies were completed in 1993, and final cleanup strategies for contaminated areas were initiated to include removal and treatment of

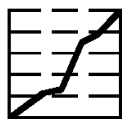
contaminated soils and sludges, construction of onsite containment cell, and disposal of approximately 1 million cubic yards of waste materials. Construction of the disposal cell was completed in 2001.

Quarry Residuals: An investigation focusing on residual contamination and groundwater contamination at the quarry area was concluded in 1998. The final restoration of the quarry was completed in September 2002 after removal of the water treatment plant and final backfilling and seeding of the area. Established long-term groundwater monitoring plans are ongoing.

Groundwater in the Former Chemical Plant Area: In the mid-1980s, the DOE began investigation of the groundwater in the chemical plant area. In September 2000 an interim decision was made allowing for focused treatment of TCE contaminated groundwater through in-situ oxidation. In January 2004, monitored natural attenuation and institutional controls was selected as the final remedy for the remaining groundwater contamination.

Site Facts: The DOE conducted cleanup actions at the quarry and the chemical plant area under a 1992 Interagency Agreement with the EPA,

ENVIRONMENTAL PROGRESS



The permanent disposal of contaminated soil, materials, and structures, and the treatment of impounded surface water described above, have reduced the potential for exposure to hazardous substances at the Weldon Spring Quarry/Plant/Pits site. The potential for exposure to contaminated groundwater will be minimized through natural attenuation and groundwater use restriction.

COMMUNITY INVOLVEMENT

The Corps of Engineers has the lead on the site. EPA oversees all activities related to the site to include participation in public meetings and the review and oversight of community involvement documents as needed.

In April 2006, EPA developed a factsheet announcing that EPA Region 7, DOE, and MDNR entered into a new Federal Facility Agreement (FFA) for the DOE's Weldon Springs Site near St. Charles, Missouri. The factsheet also announced that the new FFA was available for 30-day public comment from April 16 - May 19, 2006 and the location of the repository for public review.

In August 2002, the Weldon Spring Interpretive Center was dedicated. The Center depicts the history of the area and details the progression of the cleanup process that resulted in construction of the 45 acre engineered disposal cell. A public viewing platform and informational monuments were placed at the top of the cell providing a panoramic view of the surrounding area. In addition, the DOE coupled the historic significance of the area with its natural and recreational surroundings by adding a hike and bike trail connecting the Weldon Spring site to the historic Katy Trail and to the wildlife center in the August A. Busch Memorial Wildlife Area. The new trail has been named the Hamburg in recognition of the town of Hamburg, which was one of three towns taken over by the U.S. Army in order to construct the Weldon Spring Ordnance Works during World War II.

EPA Region 7 Public Affairs Director participated in the dedication.

Congressional Districts:

Senator Claire McCaskill, Senator Roy Blunt, Senator Scott Rupp District 2, Senator Tom Dempsey District 23,

Representatives Blaine Luetkemeyer, Doug Funderbunk District 12, Chuck Gatschenberger District 13, Kathie Conway District 14, Sallie Faith District 15, Mark Parkinson District 16, Anne Zerr District 18, Vicki Schneider District 17

SITE REPOSITORY



Middendorf-Kredell Branch Library
St. Charles City-County Library
District
2750 Hwy K, O'Fallon, MO 63366

Superfund Records Center
901 N. 5th St.
Kansas City, KS 66101
Mail Stop SUPR
(913)551-7166

REGIONAL CONTACTS

SITE MANAGER:

E-MAIL ADDRESS:

PHONE NUMBER:

Hoai Tran/R7/USEPA/US

tran.hoai@epa.gov

(913) 551-7330

COMMUNITY INVOLVEMENT

COORDINATOR:

PHONE NUMBER:

E-MAIL ADDRESS:

Ben Washburn

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STATE CONTACT:

PHONE NUMBER:

Aaron Schmidt

(573) 751-3154

MISCELLANEOUS INFORMATION

STATE:

MO

073S

CONGRESSIONAL DISTRICT:

09

EPA ORGANIZATION:

SFD-SUPR/FFSE

MODIFICATIONS

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EPA/US

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