

The St. Louis Sites

Formerly Utilized Sites Remedial Action Program • Summer 2012

(314) 260-3905

www.mvs.usace.army.mil

St. Louis Downtown Site

Remedial action construction activities in progress or recently completed at the St. Louis Downtown Site (SLDS) include the Mallinckrodt – Plant 7 West (7W) 700 Pad, Plant 6 West Half (6WH), City Property Phase 1- west of the Mississippi River Levee and Phase 2- east of the levee.

Between April 2011 and February 2012, remediation and restoration of two additional survey units at the Plant 7W 700 Pad were performed, resulting in the removal and disposal of approximately 3,500 bank cubic yards (cys) of contaminated soil. Remediation of the third survey unit, completed in May 2012, included the removal of approximately 2,550 bank cys of contaminated soil along the historical rail spur. Restoration of the third survey unit and excavation of the fourth survey unit is underway and scheduled for completion in late summer 2012.

In May 2012, the demolition began on the above ground structure known as Building 101, which is located at Mallinckrodt's abandoned shipping center in Plant 6WH. The demolition of the 57,600 square foot building is necessary for the removal of contaminated soils beneath the structure and includes several abandoned foundations of the historical Manhattan Engineering District/Atomic Energy Commission Destrehan Street Plants. Demolition of the building and debris management is scheduled for completion in September 2012. The remediation and restoration of this area is expected to be completed by December 2015.

Between November and December 2011 remediation and restoration were performed on City Property Phase 1, west of the levee, along the Destrehan Street sewer. Its completion included the removal and disposal of



City Property Phase 2 (Area 7) Looking East

approximately 300 bank cys of contaminated soil and the removal and restoration of approximately 35 linear feet of 30-inch sewer. This area is located adjacent to a previously remediated area completed in October 2009 and is beneath an overhead trestle. Slide rail trench shoring was used to meet the vertical clearances available at this location.

In November 2011, remediation and restoration were completed on Area 3 of City Property Phase 2, east of the levee. This area's remediation began in February 2011 and included the removal, disposal, and restoration of approximately 7,900 bank cys of contaminated soil. Excavation in this area followed the U.S. Army Corps of Engineers (USACE) River Stage/Excavation Guidelines, and restoration included the replacement of the clay cap layer with a vegetation cover and rip rap protection for the river bank.

In October 2011 remediation began at the final two excavation areas, Area 7 and Area 8, on City Property Phase 2, east of the levee, along the abandoned portion of the Destrehan Street sewer. This excavation will extend from the east toe of the levee into the edge of the river and will remove abandoned sewer outfall structures. Excavation at this location is approximately 10 percent complete; it is currently on hold until required river levels are reached (potentially in late summer 2012 at current river stage discharges). Required river levels are such that sewer outfall structures are exposed for periods long enough to allow remediation. The remediation and restoration of these final two excavation areas are expected to be completed in early 2016.

Upcoming Events

Information Releases: Winter Newsletter - January 2013
This newsletter is issued twice a year.

Upcoming Meeting: St. Louis Oversight Committee Meeting - November 8, 2012 at the Florissant Civic Center. Check www.mvs.usace.army.mil/eng-con/expertise/fusrap.html for updates, or call JoAnne Wade at 314.260.3912.



US Army Corps
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St. Louis District

North County

Latty Avenue Sites

Hazelwood Interim Storage Site Futura

Remedial activities on the Hazelwood Interim Storage Site (HISS) property were completed in October 2011. In 2000 and 2001, the USACE removed over 39,000 cys of contaminated material from the storage piles located at the Latty Avenue properties. Since 2007, the USACE has removed over 105,000 cys of contaminated material from below the soil surface and shipped it to an out-of-state licensed disposal facility. In 2011, the USACE removed and remediated under the HISS railspur to complete the remedial activities at the HISS. A Post Remedial Action Report (PRAR)/Final Status Survey Evaluation (FSSE) is underway for the HISS property, and USACE anticipates the document's release in 2013.

The USACE is currently completing designs and beginning remediation of contaminated material on buildings 2/3, and 4 located on the Futura property. The USACE's goal is to complete all the remedial activities at the Futura site during 2012. Following the decontamination of the buildings, the USACE will prepare a PRAR/FSSE for the Futura property and anticipates its release in 2013.

The North County Record of Decision (ROD) determined that contamination located under buildings is inaccessible. The USACE will place institutional controls on any contamination left in place at the Futura property. In order to protect Coldwater Creek, adjacent to the Futura property, the USACE established a long-term environmental monitoring program that will evaluate the groundwater for radiological parameters that may affect Coldwater Creek.



Futura Building 4 Raceway Decon



Futura Building 2/3 Decon Prep Work

Latty Avenue Vicinity Properties

In October 2011, the USACE completed remedial activities of the soils at the Latty Avenue Vicinity Properties (VPs). The Latty VPs include 01L, 02L, 03L, 04L, 05L, 06L, 10K530087, and VP-40A (Latty). All Latty Avenue VPs are currently in final status survey to ensure the properties are releasable for unrestricted use and unlimited exposure.

At VP-02L, the USACE removed over 17,500 cys of contaminated material and shipped it to a licensed out-of-state facility. At VP-40A (Latty), over 29,000 cys of contaminated material were removed and shipped to a licensed out-of-state facility. A minimal amount of contaminated material was removed during utility support work at the VP-03L through 06L sites. VP-01L is currently undergoing building inspection to determine if additional remediation is required within the building. The USACE anticipates the PRARs/FSSEs for the Latty Avenue properties, with the exception of HISS/Futura and VP-40a (Latty), to be completed by the end of 2012.

St. Louis Airport Site Vicinity Properties

Ballfields Area

The USACE also continued the remedial activities at the Ballfields, which comprises approximately 60 acres in Berkeley and Hazelwood, Mo. The property is located north of Lambert-St. Louis International Airport and south of Frost Avenue. It is bordered to the south by McDonnell Boulevard and to the west by Coldwater Creek. The property is vegetated with grasses, trees, and brush and is currently unused except for the small northeast portion, which is used as a shooting range for the City of Berkeley. Historically, the property was used for agricultural land



Ballfields Phase I Restoration

and as a baseball field complex. Contamination of the Ballfields occurred when residues migrated from the St. Louis Airport Site (SLAPS) via runoff onto adjacent properties through Coldwater Creek or when material being transported along haul routes was windblown, released, or otherwise deposited. The alignment of McDonnell Boulevard (which was once Brown Road in that area) has changed over time.

The remediation of the Ballfields will be completed in three phases. Phase 1 includes the east portions of Eva Avenue, IA-08 North Ditch, IA-09 North Ditch, the area north of IA-09, and Eva Avenue. This area is situated on the east of the area drainage divide and comprises approximately 25 acres. Phase I remediation was completed on July 18, 2012. The design for Phase 2 was completed in mid May, and remediation began in early July. All remedial excavations are controlled with dust suppression and waste water management to prevent migration.

Keeping in Touch

Mailing Lists - To receive newsletters and other printed communications, sign up for our mailing list any time.

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If you have any suggestions, questions, or comments, please contact us.

Other St. Louis Airport Site Vicinity Properties

In December 2011, the USACE released the PRAR/FSSE for the SLAPS VPs 54 and 55 located on Pershall Road. Currently, sampling designs are underway for VPs 1, 2, 7, 13, 14, and 15 along McDonnell Boulevard, VPs 09C and 10C on Byassee Road, as well as the Ballfields West IA-10 property, north and west of Coldwater Creek. The remedial design for VP-16/Eva Loadout Facility is nearly complete, and remedial activity is expected prior to the reopening of Eva Avenue.

Coldwater Creek

Potential radiological contamination in Coldwater Creek can be attributed to the prior storage of uranium processing residues and wastes at SLAPS and subsequently at HISS. These wastes resulted from the ore-processing activities at SLDS and have been removed by USACE. The potential movement of wastes into the creek would have occurred by wind or water.

Sampling is routinely conducted in Coldwater Creek by USACE as part of the Formerly Utilized Sites Remedial Action Program Environmental Monitoring Program (FUSRAP). Sediment and water are sampled biannually at six different locations. The resulting data is reported and evaluated in annual environmental monitoring reports, which can be viewed on the USACE homepage.

Although many sediment and water samples have been taken along Coldwater Creek, some data gaps still exist. As part of the plan to work from upstream to downstream, USACE currently is developing a sampling plan for the part of the creek from McDonnell Boulevard to the railroad bridge crossing just northeast of VP-9C. The purpose of this final round of sampling will be to confirm that the Creek meets ROD cleanup requirements or to identify/quantify any material requiring removal in order to meet these requirements. If remediation is required, the sediment/soil will be removed and shipped to an offsite permitted disposal facility in accordance with the North County ROD.

The St. Louis Oversight Committee

The most recent St. Louis Oversight Committee meeting was held on April 26, 2012, at the Florissant Civic Center. The USACE gave a presentation on FUSRAP, summarizing the remediation work that is taking place at all of the St. Louis Sites. Mr. Jonathan Garoutte of the Missouri Department of Health and Senior Services gave a presentation on the biological effects of radiation, and Dr. Bruce Stinchcomb gave a presentation on the geology of Coldwater Creek.

The next Oversight Committee meeting is set for November 8, 2012, at the Florissant Civic Center.

Educational Information

Q: If something contains radiation, is it contaminated?

A: The short answer is “not necessarily.”

Radiation, which is energy in the form of particles or electromagnetic rays released from radioactive atoms, comes from many sources – some natural and some man-made. The four major sources of naturally occurring radiation exposures are: cosmic radiation (i.e. from the sun and outer space), terrestrial (sources in the earth’s crust such as soils and rocks), sources in the human body and radon (which comes from the decay of naturally occurring radium in the soil.) The major sources of man-made radiation are: medical radiation (such as x-rays or scans), consumer products (such as some TVs and older smoke detectors), and others (such as residual fallout from atmospheric nuclear weapons testing in the 1950s and early 1960’s). Because radiation can occur in places where it is beneficial or unavoidable, radiation is only considered as contamination when one has a radioactive material in an unwanted place.

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