

# The St. Louis Sites

Formerly Utilized Sites Remedial Action Program • Winter 2013

(314) 260-3905

[www.mvs.usace.army.mil](http://www.mvs.usace.army.mil)

## St. Louis Downtown Site

Current remedial action (RA) construction activities at the St. Louis Downtown Site include removal of contaminated soil from beneath the footprint of Building 101 in Mallinckrodt's Plant 6 and additional excavation on City Property east of the Mississippi River Flood Protection Levee. Workers will remove abandoned 15-inch and 30-inch Metropolitan Sewer District sewers and river outfall structures.

The U.S. Army Corps of Engineers (USACE) recently demolished the superstructure of Building 101, Mallinckrodt's former Bulk Shipping Center. Also underway is the demolition of the concrete foundation from the 57,400 square foot building, including removing abandoned foundations beneath the building footprint. Remediation of this area will require the removal of approximately 46,000 bank cubic yards (cys) of contaminated material. RA of this area is scheduled for completion in 2015.

The dry weather and low flow conditions of the Mississippi River this past year have aided the safe removal of abandoned 15-inch and 30-inch sewer outfall structures located in the river. Excavation of these contaminated concrete structures below normal water level and about 60 feet of the connecting sewers back to the toe of the rock-fill berm, which protects the excavation slope, is almost complete. The USACE has authorized the backfill for a portion of this area, and backfilling is now underway.

Excavation of the remaining portion of this area and the next phase of this RA will continue as resources and favorable river level conditions allow. Remediation of this area will require the removal of approximately 7,500 cys of contaminated material around the sewers and river outfall structures. RA of this area is scheduled for completion in 2016.



*Building 101 Demolition – St. Louis Downtown Site*

## SLDS Inaccessible Soils Operable Unit Feasibility Study and Proposed Plan

The USACE is currently preparing the Feasibility Study (FS) and Proposed Plan (PP) for the SLDS Inaccessible Soils Operable Unit (ISOU). The FS uses information gathered and analyzed during the Remedial Investigation (RI) phase to develop and evaluate potential remedial alternatives. The goal of the RI and FS is to gather information sufficient to support an informed risk management decision regarding which remedy appears to be most appropriate for the site.

The PP identifies the preferred alternative, provides a rationale for this preference, and includes summaries of other clean up alternatives evaluated. A public meeting will take place to present the FS/PP to the stakeholders in 2013. The stakeholders may review the FS/PP and provide comments. The USACE will issue a public announcement stating the date, time, and place for the SLDS ISOU public meeting.

## North County

### Latty Avenue Sites

#### Hazelwood Interim Storage Site/Futura

The USACE completed remedial activities on the Hazelwood Interim Storage Site (HISS) property in October 2011. In 2000 and 2001, the USACE removed more than 39,000 cys of contaminated material from the storage piles 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

## Upcoming Events

### Information Releases: Summer Newsletter - August 2013

This newsletter is issued twice a year.

**Upcoming Meeting: St. Louis Oversight Committee Meeting - 7:00 pm, April 25, 2013 at the Florissant Civic Center. Check [www.mvs.usace.army.mil/eng-con/expertise/fusrap.html](http://www.mvs.usace.army.mil/eng-con/expertise/fusrap.html) for updates, or call Brenton Barkley at 314.260.3922.**



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remediated under the HISS railspur to complete the remedial activities at the HISS. A Post Remedial Action Report (PRAR)/Final Status Survey Evaluation (FSSE) for HISS is to be completed in 2013.

The USACE is currently remediating the interior of Building 2/3 located on the Futura property. Building 4 was completed during the summer of 2012. All remedial activities at the Futura site are expected to be complete by February 2013. A PRAR/FSSE for Futura is to be completed in 2013.

The USACE will place institutional controls on any contamination left in place at the Futura property in accordance with the North County Record of Decision (ROD), signed September 2, 2005. An institutional controls plan is currently under development and expected to be published in late 2013. In order to protect Coldwater Creek, adjacent to the Futura property, the USACE established a long-term environmental monitoring program that evaluates the groundwater for radiological parameters that may affect Coldwater Creek.

### Latty Avenue Vicinity Properties

The Latty Avenue Vicinity Properties (VPs) include 01L, 02L, 03L, 04L, 05L, 06L, 10K530087, and VP-40A (Latty). A PRAR/FSSE for Latty VPs 03L, 04L, 05L, and 06L was published in September 2012. The VP-02L PRAR/FSSE was published in December 2012. The PRAR/FSSE for portions of VP-40a is scheduled for completion in 2013.

RA is required in the interior of buildings located at VP-01L. A design is currently underway at VP-01L, and remediation is expected to begin in early 2013. An addendum to the VP-01L/10K530087 PRAR/FSSE will be published upon completion of remediation within the buildings.



*Ballfields Phase 2 Excavation*



*VPI6 Eva Loadout Remediation*

## St. Louis Airport Site Vicinity Properties

### Ballfields Area

The USACE continued remedial activities at the Ballfields area, 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. The Ballfields area is bordered to the south by McDonnell Boulevard and to the west by Coldwater Creek.

Contamination of the Ballfields occurred when residues migrated from the St. Louis Airport Site (SLAPS) via runoff onto adjacent properties from Coldwater Creek or when material being transported along haul routes was windblown, released, or otherwise deposited.

Remediation of the Ballfields will be completed in multiple phases. Phase 1, consisting of 25 acres, was completed on July 18, 2012. The design for Phase 2, encompassing 17 acres, was completed in mid-May 2012 and remediation began in early July 2012. An addendum to the Phase 2 design is currently underway, including an additional 11 acres directly adjacent to the west side of the initial Phase 2 design, and work is expected to begin in February 2013. All remedial excavations are controlled with dust suppression and waste water management to prevent migration.

### Other St. Louis Airport Site Vicinity Properties

Currently, sampling designs are underway for VPs-1, 2, 7, 13, 14, 15, and IA-11 along McDonnell Boulevard, and at VPs-09C and 10C on Byassee Road. The RA for VP-16/Eva Loadout Facility is nearly complete. Eva Avenue has been reopened due to completion of the RA along the railroad adjacent to it. PRAR/FSSEs for both VPs 10, 11, and 12 and VPs 60, 61, and 62 are currently being developed.



Coldwater Creek Sampling

### Coldwater Creek

Potential radiological contamination in Coldwater Creek can be attributed to runoff or windblown migration of the prior storage of uranium processing residues and wastes at SLAPS and at HISS. The USACE removed the SLAPS and HISS wastes, which resulted from the ore-processing activities at SLDS.

The USACE routinely conducts sampling in Coldwater Creek as part of the Formerly Utilized Sites Remedial Action Program (FUSRAP) Environmental Monitoring Program. 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 FUSRAP 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, the USACE sampled Coldwater Creek from McDonnell Boulevard to Frost Avenue in October and November 2012. Currently, the USACE is sampling and analyzing the data along the banks adjacent to Coldwater Creek from McDonnell Boulevard to Frost Avenue. The Pre-Design

Investigation Report Phase 1 will be completed in 2013 upon completion of the data analysis. In addition, the USACE is developing a sampling plan for the portion of the creek from Frost Avenue to St. Denis Bridge.

Once the sampling plan has been issued, the USACE will begin sampling this stretch of the creek. The results of this stretch will determine the density of sampling required throughout the remainder of the creek to the mouth of the Missouri River. The purpose of this final round of sampling will be to confirm that the creek meets ROD cleanup requirements or to identify and quantify any material requiring removal in order to meet these requirements.

### 5-Year Review

The USACE initiated the Third 5-Year Review for the St. Louis FUSRAP sites in 2012. CERCLA requires a 5-year Review on RAs when “hazardous substances, pollutants, or contaminants will remain on site above levels that allow for unlimited use and unrestricted exposures.” Manhattan Engineer District/Atomic Energy Commission contamination still exists at the SLDS and North County sites. The USACE is currently in the process of remediating these areas.

5-Year Review activities consist of a document review to ensure requirements of the selected remedy have been implemented; data review and analysis; site inspections; and interviews from the state, representatives of the community, local officials, potential responsible parties, property owners, and the public. The final component of the review is an overall evaluation to determine whether the selected remedy upon completion will be protective of human health and the environment. The results of the community interviews will assist in judging whether the strategies and activities of the selected remedy remain responsive to the needs of the FUSRAP stakeholders. These steps will culminate in a 5-Year Report which will be available for public review in 2014.

### The St. Louis Oversight Committee

The most recent St. Louis Oversight Committee meeting was held on November 8, 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. Jonathan Garoutte of the Missouri Department of Health and Senior Services gave a presentation on the biological effects of radiation. Jaynie Doerr gave a presentation on the regulatory process, including Section 404 of the Clean Water Act and Section 10 of the River and Harbors Act. The next Oversight Committee meeting is set for 7:00 pm, April 25, 2013, at the Florissant Civic Center.

### Keeping in Touch

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

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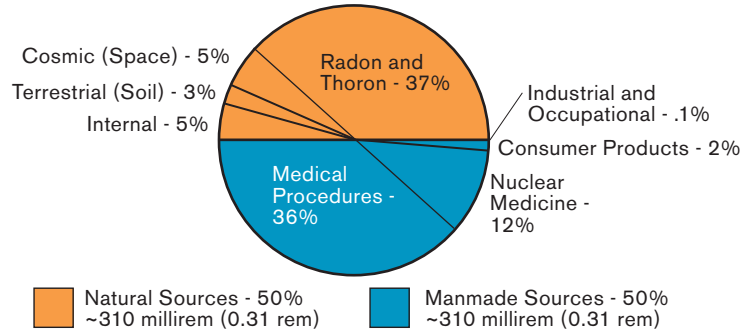
If you have any suggestions, questions, or comments, please contact us.

**Educational Information**

**Q:** What sources of radiation are we exposed to?

**A:** Since the beginning of time, all living creatures have been, and continue to be exposed to radiation. Many people are not aware of all the natural and manmade sources of radiation in our environment. The chart displayed here shows the sources of the 620 millirem of ionizing radiation that people generally receive every year. Of this total, natural sources of radiation account for about 50 percent, while manmade sources account for the remaining 50 percent.

**Sources of Radium Exposure in the United States**



Source: NCRP Report No. 160  
 Full report is available on the NCRP website at [www.NCRPpublications.org](http://www.NCRPpublications.org)

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