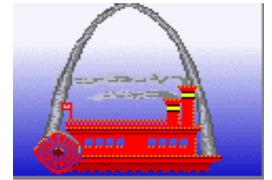




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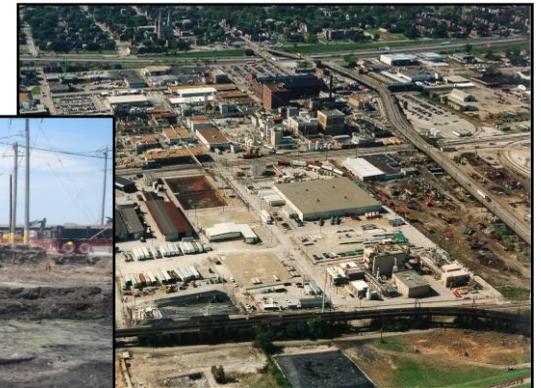
FUSRAP



Gateway to Excellence

St. Louis Oversight Committee Meeting *Corps Update*

25 April 2013





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Agenda



Gateway to Excellence

- **Background**
- **Brief History**
- **St. Louis Downtown Site (SLDS)**
- **North County Sites**
 - **Latty Ave. Properties**
 - **St. Louis Airport Site (SLAPS)**
 - **SLAPS Vicinity Properties**
 - **Coldwater Creek Sampling**
- **Remaining Sites – Volumes Removed**
- **Site-wide Activities**



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Background



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- **Program execution transferred in Oct 1997 from Dept of Energy to the U.S. Army Corps of Engineers (Corps)**
- **Corps authorized to spend funds to address contamination resulting from the Nation's early atomic weapons program at sites included in the Formerly Utilized Sites Remedial Action Program (FUSRAP)**
- **Corps "inherited" equipment, documents, and data from prior Dept of Energy efforts**
- **Legally required to follow the CERCLA/NCP planning process**
- **Congress directed execution using local Corps District (5 sites to St. Louis District)**
- **Funded annually**



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Brief History



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Oct 1997 – FUSRAP execution transferred to Corps from Department of Energy

Mar 1998 – Corps ad in Post-Dispatch announces availability of the SLAPS and HISS EE/CA reports. (These reports allowed construction at SLAPS, the Ballfields and HISS to begin before the North County Record of Decision was done. The Corps immediately constructed rail spurs and began stabilizing areas at SLAPS and HISS.)

Aug 1998 – St. Louis Downtown Site Record of Decision completed. (2 Public Meetings held).

Jan 1999 – Corps issues Community Relations Plan. Interviews conducted . (Community Relations Plans are updated approximately every 5-6 years.)

1999 – 2002 – Stabilization efforts at SLAPS and the Ballfields continue. HISS Piles are removed. These actions are concurrent with planning efforts to develop the Feasibility Study Report and Proposed Plan for a North County Record of Decision

Aug 2002 – Environmental Training sessions held for the Public at Hazelwood Civic Center. (Notice in newspapers) The purpose of the training was to prepare the public for review of North County reports. Approximately 30 people attended.

May 2003 – Five Year Review Report issued. (Notices in newspapers)

*Fact sheets and newsletters are distributed thru libraries, businesses, and mailed to general public and public officials.



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Brief History



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May-Jul 2003 – Public review of North County Proposed Plan. Public meeting held. Comments recorded. (North County = SLAPS, SLAPS VPs & Latty Ave sites)

Dec 2003 – Community Relations Plan updated and finalized.

Sep 2005 – Record of Decision for North County signed. Public comments/responses are included in the document. Remediation Goals (clean up standards) established.

Nov 2005 – Open House regarding North County ROD.

May 2007 – SLAPS Completion/closeout Ceremony. (Public notice issued)

Sep 2010 – Second Five-Year Review Report issued. (Public notice)

Sep 2012 – Remedial Investigation Report for SLDS Inaccessible Areas issued.

Oct 2012 – Beginning 3rd Five Year Review and updating the Community Relations Plan

2001, 2002, 2003 & 2010 – USACE issued notification letters to landowners/tenants keeping them informed/aware of possible contamination on property



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St. Louis Downtown Site (SLDS)

FY13 Activities Status



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- **Plant 6, Building 101** – Mallinckrodt made Bldg 101 available for remediation. Remedial activities are on-going.
- **City Property (East of Levee)** – Remedial activities on-going.
- **Kiesel Property** – Completed sampling. Remedial activities will be completed in Summer 2013.
- **Inaccessible Soils** – Remedial Investigation Report finalized Sep 2012. Initiating steps to complete the Record of Decision for the SLDS inaccessible soils operable unit.
- **Completing Final Status Survey Evaluations (FSSE) for 5 properties**
- **Shipping Total**
 - Fiscal Year 2013 = 9,626 cy





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Latty Ave. Properties

FY13 Activities Status



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- **Hazelwood Interim Storage Site (HISS)** – Remedial activities completed in FY11. Final Status Survey Evaluation (FSSE) completed by September 2013.
- **Futura** – Building decontamination completed February 2013. (FSSE) is being prepared.
- **VP-1L (Fed Mogul)** – Building decontamination to be completed in May 2013.
- **VP-2L (formerly Stone Container)** – FSSE was completed December 2012.
- **VPs-3L, 4L, 5L & 6L** – FSSE was completed September 2012.
- **Ground water Monitoring** – For inaccessible material beneath buildings at Futura to ensure protection of groundwater and Coldwater Creek. No evidence of contamination in wells.
- **Shipping Totals** – FY13 = <1 cy





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St. Louis Airport Site (SLAPS) FY13 Activities Status



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- **No Change** (Remedial Action completed in 2007)
- **Post-Remedial Action Activities** – Air and ground water monitoring implemented. Temporary USACE facilities support other North County projects.



Before



Now



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SLAPS VPs

FY13 Activities Status



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- **Ballfields (IA-9)** – Being completed in phases
 - Phase 1: Completed Final Inspection held on Feb. 20th
 - Phase 2: Excavation on hold due to wet conditions, approximately 85% complete
 - Phase 2B: Remedial Design to be finalized in May.
- **Eva Rd & Loadout** – Remediation completed; road opened on Jan. 16th
- **VP-16** – A small part remains. Excavation on hold while awaiting RR track closure
- **IA-10** – Sampling completed; analyzing & validating data.
- **VPs 1, 2, 7, 13, 14, 15 and IA-11 (Boeing/McDonnell Blvd Properties)** – Sampling anticipated to be completed in 2013.
- **VPs 9C & 10C** – Sampling completed. No contamination found on property. Initiating PDIR/FSSE to release property. Awaiting validation and quality control results.
- **FSSEs** -- Completing FSSEs for 9 properties this FY
- **Ground Water Monitoring** – To confirm contamination does not move to creek during remediation. (9 upper zone & 2 deeper zone monitoring wells – see EMDAR.)
- **Shipping Total** – FY13 = 6,633 cy



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Coldwater Creek (SLAPS Vicinity Property)



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- **Approach**
 - Eliminate MED/AEC contributors/sources first (i.e. SLAPS and Latty)
 - Work upstream to downstream (from the airport to the Missouri River)
 - Support utility excavations along creek.
- **Scope**
 - Follows the contamination based on known data and “contaminant transport model”
 - Investigate (survey and sample) and if necessary remediate
 - Follow Record of Decision goals
- **Creek Subdivided into 4 Reaches for Reference**



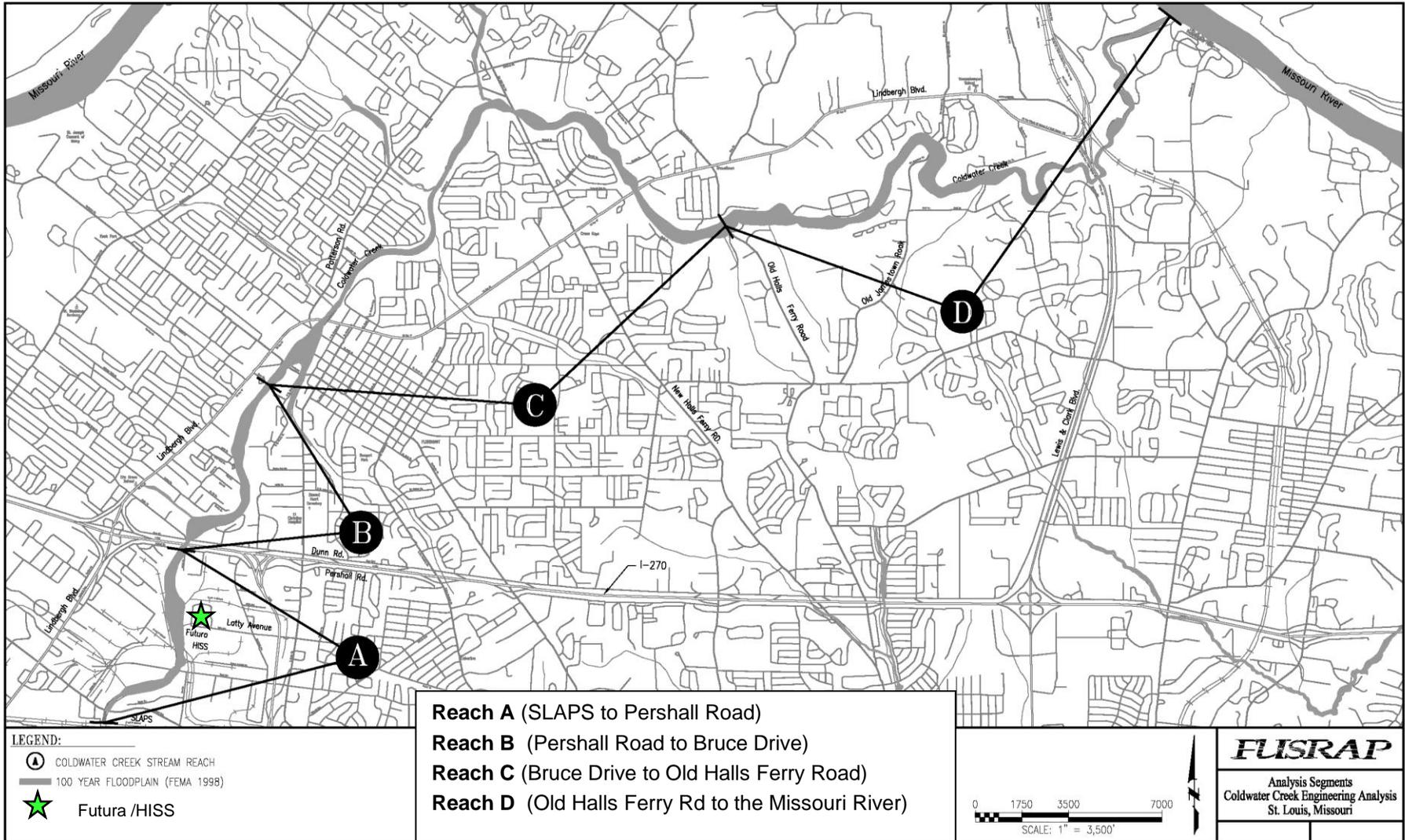


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Coldwater Creek (Reach subdivisions)



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Coldwater Creek

(SLAPS Vicinity Property)



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- **Past Activities (through April 2013)**

- Sampled from the airport to the Missouri River.
- Remediated around St. Denis Bridge in support of bridge replacement (1998)
 - Thorium 230 was the predominant radionuclide
 - Removed 450 cubic yards of material and debris to support construction
- Remediated Creek between SLAPS and McDonnell Blvd (as part of SLAPS)
- Remediated Creek tributary adjacent to HISS (as part of HISS)
- Remediated MED/AEC contributors: SLAPS (remediated) & HISS/Futura (remediation of soils complete)
- Sampled Coldwater Creek from McDonnell Blvd to approximately Frost Ave
 - 622 samples collected in October-December 2012
 - Elevated samples primarily near McDonnell Blvd.(see maps in back of room)
- Sampled bi-annually in Reach A (Airport to Pershall Road)
 - Sediment and water at 6 locations (see next slide)
 - Annual Environmental Monitoring Data/Analysis Report (EMDAR) has the data. (It is on the FUSRAP page of the St. Louis District website.)

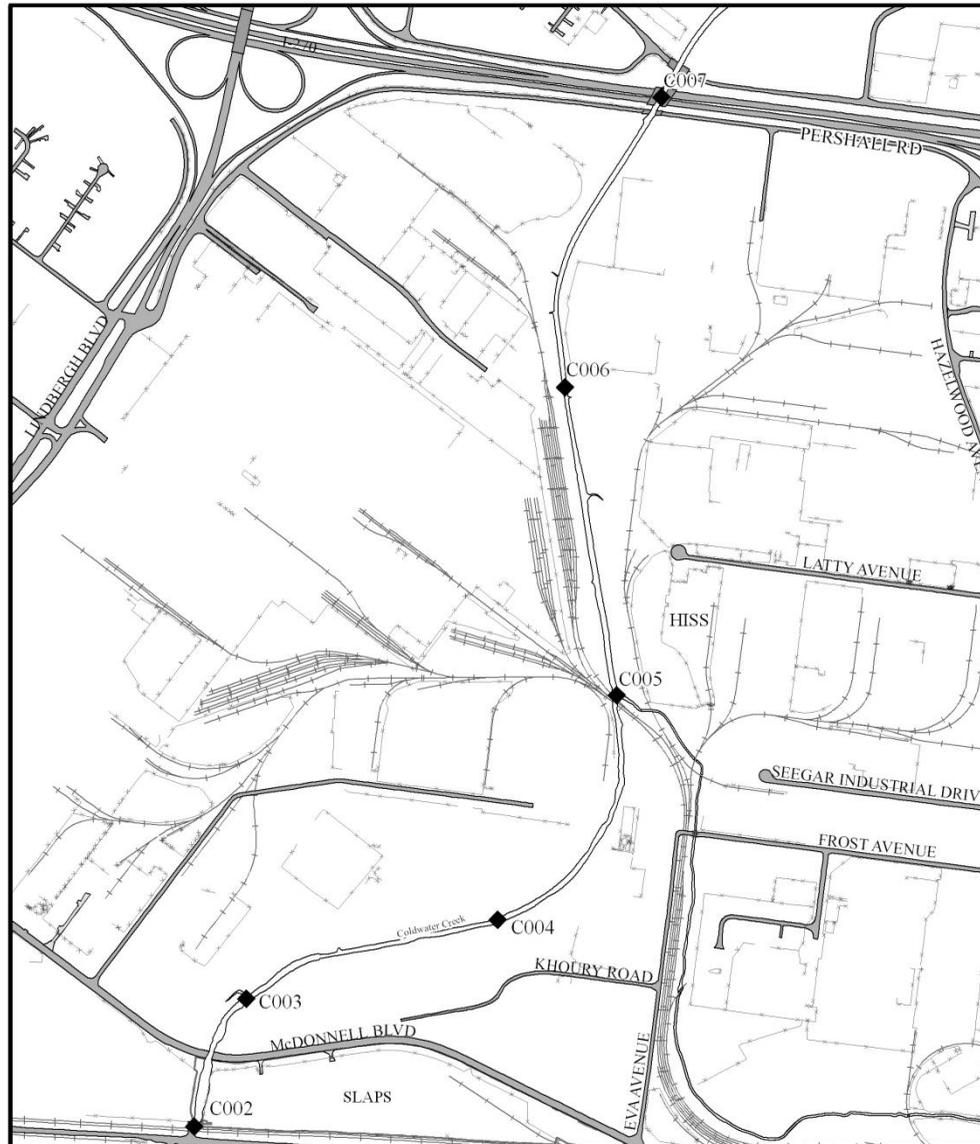


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Bi-Annual Environmental Monitoring Coldwater Creek Locations



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◆ 6 Sediment and Water
monitoring locations along
Reach A

Data contained in
Environmental Monitoring
Reports (on-line at
<http://www.mvs.usace.army.mil/Missions/CentersofExpertise/FormerlyUtilizedSitesRemedialActionProgram.aspx>)



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Coldwater Creek

(Upcoming Sampling – Frost to St. Denis Bridge)



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- **Complete Reach A and partial Reach C (see next slide)**
- **First step: Historical research/planning underway**
- **Preliminary sampling locations have been identified**
 - Approximately 2000 samples
 - Sample depths vary from surface to 6 feet (or in some cases native soil)
- **Sample locations have been based on:**
 - Physical movement (hauling and historic grading)
 - 10 year floodplain (based on experience)
 - Topographical low-lying areas (current and historical)
 - Depositional areas within the creek
 - Inside of bends where water velocity slows
 - Around certain structures such as bridge supports
 - Mouths of tributaries (existing and former)
 - Where the channel may have been realigned or improved (concrete cover)
 - Where required for statistical coverage
 - Areas indicated by radiological walkover
 - Undisturbed areas to verify air dispersion modeling



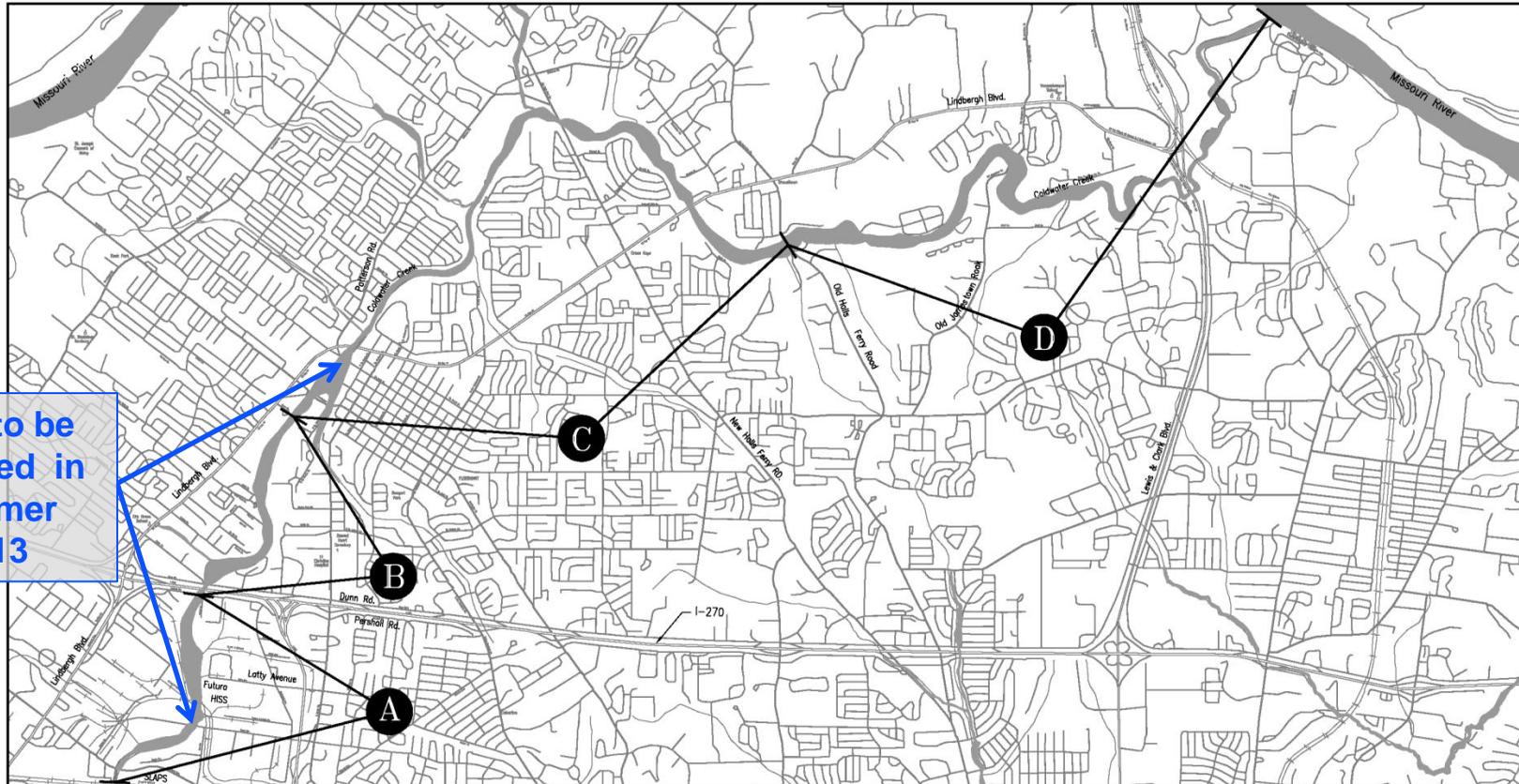
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Coldwater Creek Sampling

(Frost Avenue to St. Denis Bridge)



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LEGEND:

- Ⓐ COLDWATER CREEK STREAM REACH
- 100 YEAR FLOODPLAIN (FEMA 1998)



FUSRAP

Analysis Segments
Coldwater Creek Engineering Analysis
St. Louis, Missouri



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Sampling process

(Overview)



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- **Begins with research (History and transport models)**
- **Use of radiological walkover surveys as a screening tool to guide some of the sampling locations**
- **Sampling locations are identified and coordinated w/EPA & MO**
- **Samples are taken according to specific protocols (w/location data)**
- **Samples are sent to labs for analysis (USACE and contractor)**
- **USACE lab uses several instruments**
 - **Gamma Spectroscopy High Purity Germanium detectors (soil and water); Alpha Spectroscopy Silicon PIPS detectors (soil and water); Kinetic Phosphorescence Analyzers (Total uranium in water); and Gross Alpha/Beta Gas Flow Proportional Counters (air and water samples.)**
- **Quality Assurance/Quality Control activities**
 - **Duplicate samples, split samples, spiked samples, blanks**
 - **RA contractor does not perform final verification sampling. It is done by an independent contractor.**
- **Data is compiled and validated prior to release**



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Coldwater Creek Sampling (Frost Ave to St. Denis Bridge)



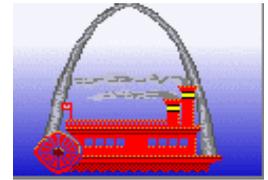
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- **Anticipate sampling to begin in Summer 2013**
- **Rights-of-entry will be required** – Affected property owners will be contacted by USACE
- **Maps are in the back of the room**
- **Looking for your input. Please talk to the Project Managers.**

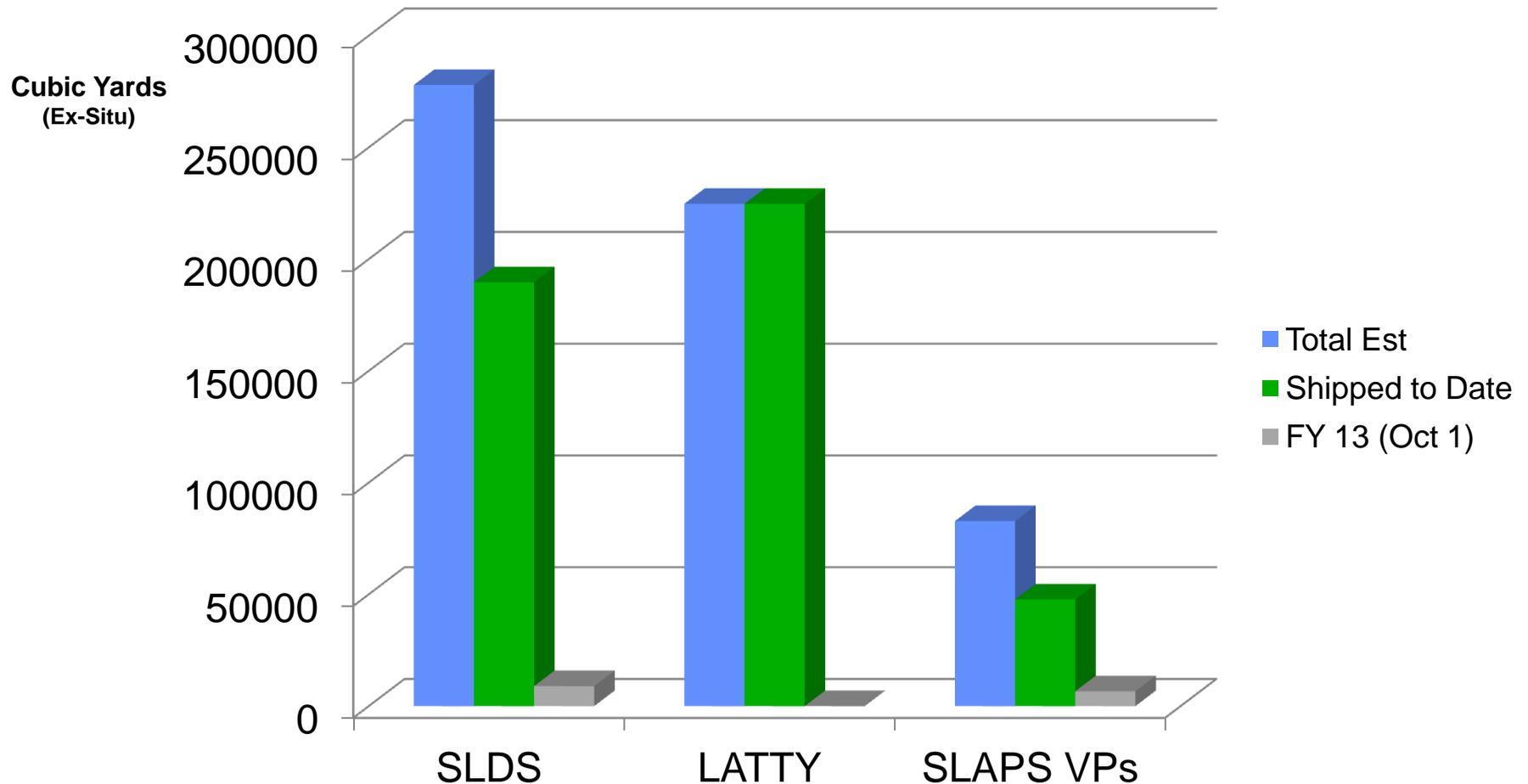


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Site Volumes



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Note: SLAPS total volume = 621,500 cy (not shown). "Total Est" reflects current estimate of total volume based on existing data. This is subject to change as a result of updating.



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FY12 Activities Site Wide



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- **Funding** – Year long Continuing Resolution from Congress provides authority. Only funding through May has been received.
- **Safety** – No issues. 3,887 days without a lost time accident.
- **Newsletters** – January 2013 newsletter was issued.
 - Next newsletter will be issued in July 2013.
 - Newsletters are on the website:
<http://www.mvs.usace.army.mil/Missions/CentersofExpertise/FormerlyUtilizedSitesRemedialActionProgram.aspx>
- **Website** – The Corps updated all of its websites (around March 28th).
 - The St. Louis District website address is <http://www.mvs.usace.army.mil/>
 - You probably need to update your links / bookmarks.
 - Some items have been moved around.



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Website Home Page (www.mvs.usace.army.mil)



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http://www.mvs.usace.army.mil/

USACE PMBP Portal (3) USACE PMBP Portal (2) _USACE AOL Preview Channel Business clipart

strict, U.S. Army Corps of Engineers

ST. LOUIS DISTRICT

US Army Corps of Engineers

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HOT INFO St. Louis Corps of Engineers activates Emergency Operations Center | 2013 Flood Fight Information | Lock Closures

2013 Earth Day
St. Louis District U.S. Army Corps of Engineers Natural Resources Specialist Angie Smith explains macroinvertebrate sampling at the 2013 St. Louis Earth Day Festival in St. Louis, Mo., Apr. 21, 2013. Macroinvertebrates are useful indicators of the health of rivers, lakes and streams.

FLOOD FIGHT 2013

REGULATORY & PERMITS

WATER MANAGEMENT

Quick Links

- Recreation
- Water Management
- Camping Reservations
- Navigation
- River and Reservoir Gages
- River Engineering
- Veterans Curation Program
- Public Notices Open for Comment
- Vessel Locking Information
- FUSRAP

Corps' Value to the Nation

In America's steamboat era, the main danger to waterborne travel and commerce was neither fire nor explosions, but rather snags—trees that had fallen into the rivers as a result of bank erosion. The current carried them to the center of the stream, and the heavier end, that with the roots, became lodged in the riverbed with the other end pointed downstream at an angle. A snag could punch a hole in a boat's hull, often causing it to sink. Particularly dangerous were the fallen trees that lay hidden beneath the river's surface. Snags caused enormous losses of vessels, cargoes, and lives.

During an age when America moved mostly by

Latest News Releases

Get Your Paddle On! at the Riverlands Paddle Festival
Alton, Ill. - The Mississippi River Water Trail Association, the U.S. Army Corps of Engineers, the Meeting of the Rivers Foundation and their associated partners invite you to experience the Mississippi River first-hand at the Riverlands Paddle Festival in the Riverlands Migratory Bird Sanctuary on Saturday, May 18, 2013. Paddling and other activities will be available from 11 a.m. to 4 p.m.
Published: 4/23/2013

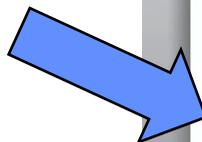
Corps of Engineers closes three locks due to high water
ST. LOUIS - In anticipation of high water, the U.S. Army Corps of Engineers St. Louis District closed Mississippi River Locks 24 in Clarksville and 25 in Winfield, as well as the lock on the Kaskaskia River Saturday, April 20, 2013.
Published: 4/22/2013

Dam West Boat Ramp Closed Temporarily for (HSA) Bass Fishing Finals
Carlyle Lake - The Illinois High School Association (IHSA) Bass Fishing Finals are being held at Carlyle Lake on Friday, May 3 and Saturday, May 4, 2013 at the Dam West Boat Ramp in the Dam West Day Use Area. In order to accommodate the tournament activities, the Dam West Boat Ramp will be closed to the general public from Monday, April 29 at 10:00 p.m. through Sunday, May 5 at 12:00 p.m. Visitors should use the Apache Boat Ramp located in Eldon Hazlet State Park or the Dam East Boat Ramp and Keysport Boat Ramp which will be available to the general public during this period.

Around the District

Water Safety Public Service Announcement

Click Here
On
"FUSRAP"





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FUSRAP Page on Website



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The screenshot shows the website header with the US Army Corps of Engineers logo and navigation menu. The main content area is titled 'FUSRAP' and includes a description of the program, a photo of a worker in a hazmat suit, and a 'Background' section with a list of links. On the right, there are sections for 'Fact Sheets' and 'Newsletters'. At the bottom, there are 'Centers of Expertise' and 'Additional Links' sections.

Oversight Mtg Briefings

North County EMDARs

Fact Sheets

Newsletters



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FY12 Activities Site Wide



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- **Community Relations Plan** – Currently being updated.
- **Environmental Monitoring Data Analysis Reports** – Calendar Year 2011 Report was issued July 2012. (Available on FUSRAP website.) Next one will be in July 2013.
- **Five Year Review** – Initiated. Anticipate completion in 2014.
- **Utility Support since Oct 1, 2012 (Fiscal Year 2013)** – Response to utility companies and developers for areas not yet confirmed to meet remediation goals.
 - St Louis Downtown Site: 3
 - North County: 9



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For Questions and Information



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- **Website** – Check the St. Louis District Website (<http://www.mvs.usace.army.mil>)
- **See a Corps representative** – We will be available after this meeting
- **Administrative Record** – Documents are available for viewing at the following locations:
 - FUSRAP Office, 8945 Latty Ave., Berkeley, MO (314.260.3905)
Hours: 8am-4pm, Monday through Friday
 - St. Louis City Library, 1301 Olive Street, St. Louis, MO (314.241.2288)

Thank You for your attention!