

Formerly Utilized Sites Remedial Action Program Update

U.S. Army Corps of Engineers

May 2005



Introduction

This third edition of *The Formerly Utilized Sites Remedial Action Program Update* shares information about FUSRAP and the U.S. Army Corps of Engineers' progress in cleaning up these sites.

FUSRAP focuses on protecting human health, public safety and the environment while conducting radiological cleanups that ensure these sites are safe for appropriate future use.

The public is a vital partner in the FUSRAP effort. The Corps, which is responsible for administering FUSRAP, has an active public involvement program, which encourages those living near the sites to be part of the cleanup activities.

The Atomic Energy Commission (AEC) created FUSRAP in March 1974 to identify, investigate and take appropriate cleanup action at sites with low concentration radioactive contamination that resulted from the nation's early atomic weapons and energy program.

Since October 1997, the Corps has continued the cleanups started by AEC and the Department of Energy (DOE) in accordance with federal laws and under the framework of the Comprehensive Environmental Response, Compensation and



Barrels still need to be removed at the Shpack Site.

Liability Act of 1980, as amended (CERCLA). The Corps coordinates with the U.S. Environmental Protection Agency (EPA) and/or state regulators on all sites.

DOE continues to play an active role in FUSRAP under a Memorandum of Understanding with the Corps. Through historical evaluations of site activities, DOE determines site eligibility for FUSRAP. DOE refers eligible sites to the Corps for further evaluation and, where warranted, designation for cleanup. The Corps' evaluation is in the form of a CERCLA preliminary assessment and sometimes a site inspection.

Once cleanup is complete, the Corps transfers responsibility for long-term stewardship of FUSRAP sites back to the DOE two years after completing response actions and final closeout activities.

As the following site-specific updates indicate, FUSRAP work consists of a set of discrete and mostly sequential phases: remedial investigation, feasibility study, and proposed plan, followed by a record of decision and subsequent remedial action. Interim removal actions, supported by an engineering evaluation/cost analysis and authorized by an action memorandum, may be conducted prior to a final remedial action where immediate action is needed to protect health, safety, and the environment.

The program currently includes 21 active sites. Each site may include multiple operable units, and multiple phases on each site.

Seven Corps districts in nine states are working on FUSRAP sites: Philadelphia, Baltimore, St. Louis, Pittsburgh, New England, New York and Buffalo. Kansas City District and the Corps' Hazardous, Toxic and Radioactive Waste Center of Expertise in Omaha, Neb., also provide assistance for the program.

Program funding has been relatively level at about \$140 a million a year since the Corps assumed responsibility for administering FUSRAP from DOE. The FUSRAP budget for this year, fiscal year 2005, is \$164 million.

More FUSRAP information can be found at: <http://hq.environmental.usace.army.mil/programs/fusrap/fusrap.htm>.

Site Updates

Combustion Engineering Site, Windsor, Conn.

The Combustion Engineering (CE) site is a 600-acre area in Windsor. New England District completed a remedial investigation report in 2004, but the follow-on documents have been delayed by requests from the owner to include additional materials in the program.

During fiscal year 2005, a feasibility study will be completed and a proposed plan and record of decision will be drafted.

The proposed plan will be provided for public comment during fiscal year 2006, and the record of decision will be completed. The Corps will continue to work with the CE site owner to develop ways of remediating the site to achieve the most cost effective and efficient cleanup.

Iowa Army Ammunition Plant, Burlington, Iowa

The Iowa Army Ammunition Plant (IAAAP) is on the EPA's National Priorities List (NPL). The FUSRAP site consists of portions of IAAAP that were potentially impacted by Atomic Energy Commission activities.

In fiscal year 2004, the St. Louis District conducted radiological screening surveys of five locations within the plant where insufficient information existed to make a determination of whether the areas were impacted by AEC. Also, the Corps began developing a Federal Facilities



Crews dealt with old concrete foundations, overhead and underground utilities, and water infiltration while cleaning up Plant 6 WH Phase 1 at the St. Louis Downtown Site.

Agreement between the State of Iowa, EPA and the Corps.

The Corps is continuing the Federal Facilities Agreement negotiations in parallel with cleanup activities, and is developing a sampling and analysis plan for the remedial investigation of the site this fiscal year. The remedial investigations will continue into fiscal year 2006.

W.R. Grace Site, Baltimore, Md.

The W.R. Grace site is a privately owned site near Baltimore. In fiscal year 2004, Baltimore District

finalized the remedial investigation/feasibility study and proposed plan for Building 23. The Corps plans to complete the record of decision for Building 23 and the remedial investigation/feasibility study for the Radioactive Waste Disposal Area this year.

In fiscal year 2006, the district will complete the record of decision for the Radioactive Waste Disposal Area.

Shpack Site, Norton/Attleboro, Mass.

The Shpack site is an eight-acre abandoned domestic and industrial landfill, which operated from 1946 to 1965 along the Norton/Attleboro town boundary line. FUSRAP is responsible for cleaning up the radiological contamination, and EPA oversees the remediation of the chemical contamination at this NPL site.

The New England District completed analysis and coordinated closely with EPA in developing the final record of decision for the entire site in 2004. Remedial action addressing the radiological contamination in accordance with the EPA record of



Removal activities occurred along Coldwater Creek on the western border of the St. Louis Airport Site and were completed in September 2004.

decision is occurring in fiscal year 2005. The district expects to complete the remedial action in fiscal year 2006, resulting in substantial completion of the site.

North County Sites, St. Louis, Mo.

The North St. Louis County Sites include the **Latty Avenue Properties**, the **St. Louis Airport Site (SLAPS)** and the **St. Louis Airport Site Vicinity Properties**.

In fiscal year 2004, St. Louis District gave the record of decision, which establishes the final remedy for cleanup of the North St. Louis County sites, to EPA and the State of Missouri for review. The district also provided miscellaneous utility support to the local landowners.

This year, the Corps will finalize the record of decision, conduct characterization and design work for these properties, and continue its support to local landowners. The St. Louis District also will continue to remediate soils, primarily on the SLAPS site this year. Next fiscal year St. Louis District will continue its major remedial action at the SLAPS and Latty

Avenue sites, with continued utility support being provided at the SLAPS Vicinity Properties.

St. Louis Downtown Site, St. Louis, Mo.

In fiscal year 2004, in accordance with the record of decision, St. Louis District completed remediation of the McKinley Bridge/City of Venice property, initiated remediation at several properties, and completed design for two vicinity properties.

This fiscal year, the district is remediating the Plant 6 West area and two vicinity properties (Midtown Garage and Thomas and Proetz Lumber Company) and completing designs for the Mallinckrodt Plants 7 North/South and 6 West, the Gunther Salt Company property, and an additional vicinity property.

In fiscal year 2006, the Corps will begin developing the feasibility study/proposed plan for inaccessible soils, complete remedial designs for one vicinity property, and will continue remediating the Plant 7 North/South, Plant 6 West and one vicinity property.

DuPont Chambers Works, Deepwater, N.J.

The DuPont Chambers Works site is an active chemical plant near Deepwater, owned and operated by E.I. Dupont de Nemours & Company. Last year the Philadelphia District completed ground-water well installation at the F Corral Area, Building 845, Building J-26 and the Central Drainage Ditch, and started investigations in the East Area and Historic Lagoon A areas.

During this year, the Corps will complete the final remedial investigation report and risk assessment, and start the feasibility study for the F Corral Area, Buildings 845 and J-26, and the Central Drainage Area, and will continue soil contamination investigation and analysis of the East Area and Historic Lagoon A areas. Ground-water contamination investigations also will continue.

Philadelphia District plans to complete the feasibility study and ground-water investigations in fiscal year 2006.

Maywood Chemical Superfund Site, Maywood, N.J.

The Maywood site is a combination of many privately and government-owned properties and is included on the NPL. In fiscal year 2004, the New York District completed the remedial design under the soils record of decision, and initiated remedial action for the remainder of soils. The Corps also initiated a ground-water feasibility study.

This year the district will complete the ground-water feasibility study while remedial action will continue on the remainder of the soils. The ground-water record of decision will be finalized, and the soils remediation will continue next year.

Middlesex Sampling Plant, Middlesex, N.J.

The Middlesex site is a federal government-owned NPL site. In fiscal year 2004, New York District continued the soils feasibility study and the ground-water remedial investigation.

This year, the Corps will complete the record of decision for soils and begin the soils remediation,

complete the remedial investigation, and begin the ground-water feasibility study. The district also will continue to work with EPA Region 2 to develop a Federal Facilities Agreement.

The soils remediation, ground-water feasibility study and record of decision work will continue into fiscal year 2006.

Wayne Interim Storage Site, Wayne, N.J.

The Wayne site is a government-owned site in Wayne Township, N.J., which the EPA declared as construction complete in September 2003. In 2004, New York District completed restoration efforts on two vicinity properties with additional contamination, and investigated inaccessible soils under a county-owned road adjacent to the site.

This year, the district is initiating a land-use control for inaccessible soils under the county-owned road and plans to continue short-term monitoring and site maintenance as well as site closeout activities.

In fiscal year 2006, the district will continue short-term monitoring and site closeout activities, and finish transitioning the site to DOE. DOE also is



Excavation was necessary in a historic stream channel at a Maywood site vicinity property.

working to excess the property through the General Services Administration.

Ashland 1, Tonawanda, N.Y.

The Ashland 1 Site is a privately owned site. Through fiscal year 2004, Buffalo District excavated, transported and disposed of contaminated material from the site and distributed the Ashland 1 Construction Report to stakeholders.

The district will begin remediating the additional contamination found in Rattlesnake Creek this year and plans to complete the remediation work and the construction report in fiscal year 2006.



A safe and methodical dismantling of Building 14 at the Linde Site began in April 2004 and was completed that fall.

activities for the Building 14 operable unit, and prepared a draft remedial investigation/feasibility study on the ground-water operable unit during fiscal year 2004.

The district is continuing the Linde soils operable unit remedial action this fiscal year; completing a remedial investigation/feasibility study and proposed plan for the ground-water operable unit; finishing the Building 14 demolition and removal; and completing the remedial investigation report at the Tonawanda Landfill and Mudflats Vicinity Property.

During fiscal year 2006, the Corps will continue the Linde soils operable unit remedial action and complete the record of decision on the ground-water operable unit.

Niagara Falls Storage Site, N.Y.

The Niagara Falls Storage Site is a federally owned site with a below ground interim repository for radioactive residues and waste, located in Lewiston Township, N.Y.

During fiscal year 2004, Buffalo District continued the remedial investigation report, began a potential responsible party study, completed a site security review, and continued yearly site maintenance, monitoring and surveillance activities.

This year, the district is continuing a remedial investigation, including the risk assessment, fate and transport assessment, the draft remedial investigation report and the potentially responsible party study. Maintenance, monitoring and surveillance activities will continue to assure integrity of the waste containment structure, and community involvement activities will continue.

During fiscal year 2006, Buffalo District will conclude the remedial investigation report, continue work on the feasibility study, continue maintenance,

Colonie Site, Colonie, N.Y.

In fiscal year 2004, New York District continued the soils removal action under the revised action memorandum and prepared a risk assessment and engineering evaluation/cost analysis for the adjacent railroad vicinity property.

The district is continuing the removal action this fiscal year and finalizing the railroad property engineering evaluation/cost analysis. The ground-water feasibility study is continuing.

In fiscal year 2006, the Corps will complete the removal actions and develop the ground-water record of decision.

Former Linde Air Products, Tonawanda, N.Y.

The Linde site is located in Tonawanda, a suburb north of Buffalo. Buffalo District continued the Linde soils remedial action, initiated demolition



Workers had to dig a trench in the southwestern portion of the Luckey Site during the remedial investigation phase.

monitoring and surveillance activities, and sustain community involvement activities in and near the site.

Seaway Landfill, Tonawanda, N.Y.

The Seaway Landfill, a closed sanitary landfill, is a privately owned site in Tonawanda. In fiscal year 2004, Buffalo District continued work on a feasibility study addendum, which included additional characterization of the Areas A, B and C, and included additional soil volume left from the Ashland 1 remedial action in the vicinity of Seaway Area D (termed the “southside”).

The district plans to complete the feasibility study addendum and to develop a proposed plan this year. Next year, the Corps plans to complete the proposed plan, conduct public review and begin work on the record of decision.

Harshaw Chemical Company, Cleveland, Ohio

The former Harshaw Chemical Company is a privately owned site approximately 5 miles southwest of downtown Cleveland. Buffalo District initiated the second phase of the remedial investigation in 2004. This year it is completing the second phase of investigation, and initiating the baseline risk assessment and feasibility study.

The Corps will complete the remedial

investigation and continue the feasibility study in fiscal year 2006.

Luckey Site, Luckey, Ohio

The Luckey Site is a privately owned site southeast of Toledo.

Buffalo District drafted the record of decision, and conducted annual ground-water sampling during fiscal

year 2004. The Corps will complete the record of decision and continue to do annual ground-water sampling this year. The district will continue general project coordination and management activities, and conduct annual ground-water sampling in fiscal year 2006.

Painesville Site, Painesville, Ohio

The Painesville Site is a privately owned site, approximately 22 miles east of Cleveland. In fiscal year 2004, Buffalo District developed a feasibility study addendum and drafted the proposed plan for remediation. This year, the Corps expects to complete the proposed plan and the record of decision, and begin remediation activities. The district will continue the remedial action in 2006.

Shallow Land Disposal Area, Parks Township, Pa.

The Shallow Land Disposal Area is in Parks Township, Pa., about 23 miles northeast of Pittsburgh. In fiscal year 2004, Pittsburgh District completed remedial investigation fieldwork and initiated a feasibility study. The district plans to complete the remedial investigation report and the feasibility study, and to initiate a proposed plan and record of decision this year. In 2006, the Corps will

complete the feasibility study and proposed plan.

Potential New Sites

The Department of Energy considered several hundred sites in the public and private sectors with the potential for residual radioactive contamination as a consequence of work accomplished in support of nuclear energy technology development begun in the early 1940s by the Manhattan Engineer District. Of these considered sites, a limited number initially were designated for remediation under FUSRAP and the others were eliminated from further consideration at that time. Thereafter, DOE notifies the Corps of new information changing the status of eliminated sites to that of eligible according to FUSRAP criteria.

Three of the four Dayton, Ohio, potential sites,

Dayton Units 1, 3 and 4, are in the process of being eliminated from further consideration under FUSRAP because no contamination was detected that warranted further action. A preliminary assessment/site inspection for the Dayton Warehouse and a preliminary assessment for the Scioto Laboratory potential sites will be finished later this year. The Guterl site in Lockport, N.Y., was recently added to FUSRAP. A remedial investigation will begin this year.

In 2004, DOE declared two more sites eligible for FUSRAP. They are being evaluated to determine if they should be designated for inclusion in FUSRAP -- the former Joslyn Manufacturing and Supply Company in Fort Wayne, Ind., and the former Sylvania-Corning Plant Site in Hicksville, N.Y. The Corps will propose that sites meeting the current designation criteria be added to the program.

The *Formerly Utilized Sites Remedial Action Program Update* is published by the U.S. Army Corps of Engineers in accordance with U.S. House of Representatives Report 107-112, dated 26 June 01, to accompany the Energy and Water Development Appropriations Act 2002, Public Law 107-66. For more information, call 202-528-4285, or e-mail: candice.s.walters@usace.army.mil.

Printed on recycled paper

**Headquarters, U.S. Army Corps of Engineers
Attn: Public Affairs Office
441 G Street NW
Washington, D.C. 20314**

