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FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM UPDATE

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INTRODUCTION

The Formerly Utilized Sites Remedial Action Program Update provides information about progress the U.S. Army Corps of Engineers is making in cleaning up sites with low-level radioactive contamination resulting from the Nation's early atomic weapons and energy programs.

FUSRAP was initiated in 1974 to identify, investigate and clean up or control sites throughout the United States where Manhattan Engineer District (MED) or Atomic Energy Commission (AEC) activities were performed during the 1940s, 1950s and 1960s. Both MED and AEC were predecessors of the Department of Energy (DOE).

Congress transferred management of FUSRAP to the U.S. Army Corps of Engineers in October 1997. The Corps continues to clean up sites the DOE began and also addresses sites identified by Congress or designated into the program by the DOE. While the DOE retains responsibility for FUSRAP, the Corps implements the program under a Corps/DOE Memorandum of Understanding.

The Corps' FUSRAP objectives are to safely, effectively and efficiently:

- Identify and evaluate sites where authority and a need for response action exist;
- Clean up or control FUSRAP sites to ensure protection of human health and the environment;
- Dispose or stabilize radioactive material in a way that is safe for the public and the environment;
- Perform work in compliance with applicable Federal, state, and local environmental laws and regulations; and
- Release sites for appropriate future use.

When implementing FUSRAP, the Corps follows the framework of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan. Each site may have multiple operable units each in a different phase within the CERCLA process.

Cleanup activities are coordinated with the U.S. Environmental Protection Agency and/or state regulators on all sites. The Corps is committed to informing and involving the public as it progresses through the decision-making process for each site.

The DOE determines site eligibility for the program using historical evaluations of site activities. Potentially eligible sites are referred to the Corps for further evaluation. The Corps performs a CERCLA preliminary assessment/site inspection and a preliminary legal analysis of Government responsibility at a site that requires further evaluation. Based on the results of these studies and CERCLA requirements, the Corps may designate a site for further response action.

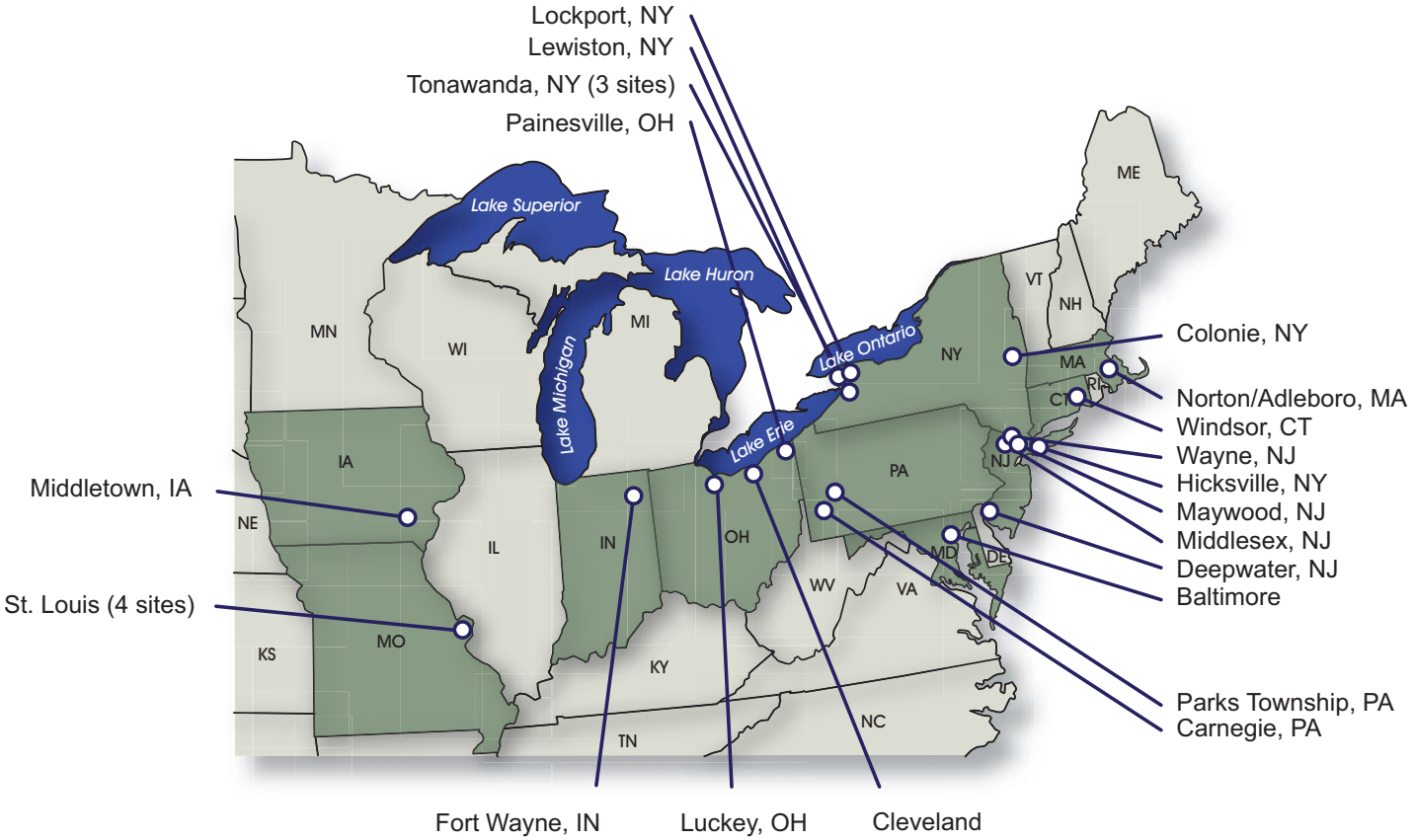
Two years after the Corps completes a response action and final closeout activities at a FUSRAP site, responsibility for long-term stewardship, if necessary, is transferred back to the DOE. The Ashland 1 Site including Seaway Area D, and the Ashland 2 Site including Rattlesnake Creek were transferred back to the DOE in fiscal year (FY) 2009.

Seven districts within the Corps work on 24 active FUSRAP sites within 10 states. Districts involved in FUSRAP include Baltimore, Buffalo, New England, New York, Philadelphia, Pittsburgh, and St. Louis. The Corps' Environmental and Munitions Center of Expertise and the Kansas City District also provide program assistance.

Since the Corps began administering FUSRAP, program funding has ranged between $130 million and $140 million a year. The FUSRAP budget for this fiscal year, 2010, was $130 million. In FY 2009 and FY 2010, nine FUSRAP sites shared $99.5 million in American Recovery and Reinvestment Act (ARRA) funding. Progress and the schedule for each site are based upon the availability of FUSRAP funds nationally.

More FUSRAP information can be found at: https://environment.usace.army.mil/what_we_do/fusrap/

Active FUSRAP Sites



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W.R. Grace Site, Baltimore

Buffalo District
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SITE UPDATES

Combustion Engineering Site
Windsor, Conn.

In fiscal year 2009, the **New England District** continued to monitor the Nuclear Regulatory Commission's (NRC) ongoing review of Combustion Engineering's decommissioning plan for this Windsor, Conn. site. Combustion Engineering is responsible for addressing any FUSRAP-related material as part of its site decommissioning efforts under a 2007 agreement between the NRC and the Corps.

During FY 2010, the district continued monitoring the company's actions. Once Combustion Engineering completes its site decommissioning, the district will review the decommissioning documents to ensure all FUSRAP-related issues have been addressed and then will remove the site from the active FUSRAP list.

Joslyn Manufacturing and Supply Company
Fort Wayne, Ind.

Joslyn Health Physicist Scanning Cores

The 23-acre Joslyn Site was entered into FUSRAP in FY 2009 and assigned to the **Buffalo District.** From 1943 to 1952 the Joslyn Manufacturing and Supply Company worked under Government contract to temper, hot roll, quench, straighten, cool, grind, cut, and thread natural uranium billets into metal rods. Actions Buffalo District plans for this site in FY11 include performing a historical aerial photograph analysis and gathering information on historic site operations, which is needed to prepare a scope of work for the Remedial Investigation. The Buffalo District currently is scheduled to start Remedial Investigation activities at the site in FY 2013.

Iowa Army Ammunition Plant
Middletown, Iowa

The **St. Louis District** published the final Remedial Investigation Report for the Iowa Army Ammunition Plant Site in FY 2009 to address plant areas formerly used by the Atomic Energy Commission where radioactive contamination was a possibility. The district also began remediation of the West Burn Pads South area and Line 1 under a Department of Army Record of Decision. Approximately 5,400 cubic yards of contaminated material was removed.

In FY 2010, the district issued a draft Feasibility Study Report for regulatory review and addressed the resulting comments. The district completed remediation at the West Burn Pads South area by removing and disposing of approximately 8,000 cubic yards of contaminated material. Subsequent to completion of the West Burns Pads South area, remediation resumed at Line 1.

FY 2011 will see the continued remediation of the Line 1 area and the issuance of a final Feasibility Study Report.

W.R. Grace Site
Baltimore

In April 2008, **Baltimore District** and the Department of Justice entered into a site-wide settlement agreement with the site owner through the District of Delaware, Bankruptcy Court. The agreement states that financial liability shall be shared between the site owner and the Government in a 40/60 split. The site owner has site lead to contract, manage and direct the site cleanup according to the final Record of Decision for Building 23 and with the Record of Decision for the Radioactive Waste Disposal Area (RWDA) when it is completed by Baltimore District in 2011.

This year, the district reviewed and commented on work plans, documents and invoices submitted by the site owner under the settlement agreement. For Building 23, the site owner plans to begin remediation activities. The district also conducted site visits during the field work when necessary, and was working toward completing the Record of Decision for the RWDA.

Plans for FY 2011 include the possibility that the site owner will complete the planning documents necessary to start remedial activities in RWDA in 2012 and that the District will continue providing review and oversight of any activities for Building 23 and RWDA conducted by the site owner under the settlement agreement.

Shpack Landfill
Norton/Attleboro, Mass.

In FY 2009, the **New England District** continued to remove FUSRAP-related material from the Shpack Landfill Site, an eight-acre abandoned domestic and industrial landfill. The total amount of processed waste shipped off site to Energy Solutions in Utah from FY 2005 through the end of FY 2009 was 20,622 cubic yards.

Fiscal Year 2010 and ARRA funding is being used to continue remediation activities at the site. Through August 2010, an additional 14,023 cubic yards were shipped offsite bringing the project total to 34,645 cubic yards of material. The remedial action is scheduled for completion by the end of FY 2011.

North St. Louis County Sites
St Louis

Latty Avenue Site

In FY 2009, the **St. Louis District** continued remedial activity and documentation for the three sites that comprise the North County St. Louis Sites: St. Louis Airport Site, St. Louis Airport Site Vicinity Properties, and the Latty Avenue Properties/Hazelwood Interim Storage Site (HISS). During FY 2010, the Five-Year Review to evaluate the effectiveness and protectiveness of the selected actions in the Record of Decision for the St. Louis Sites was initiated. This Five-Year Review will be released in FY 2011.

At the St. Louis Airport Site, where the remedial activity has been completed and the Post-Remedial Action Report has been released, groundwater monitoring and long-term management activities continued into FY 2010.

St. Louis Airport Site Vicinity Property Remediation

In FY 2009, at the St. Louis Airport Site Vicinity Properties (VPs), the district completed the sampling work plans for seven properties, the pre-design investigation plans for 15 properties and the remedial designs for 11 properties. The district also completed cleaning up five properties and shipped more than 2,000 cubic yards of contaminated soil for disposal. In FY 2010, the district completed remediation on six properties using ARRA funding, initiated remediation on two additional properties and initiated remedial designs for two properties. Approximately 2,000 cubic yards of contaminated soil were removed and shipped off site for disposal. Documentation releasing 10 properties also was issued. In FY 2011, two remedial designs will be completed and documentation releasing six properties will be prepared and issued.

At the Latty Avenue Properties Site, the district excavated and shipped 39,000 cubic yards of contaminated material in FY 2009. In FY 2010, the district completed a sampling plan and remedial design for one property, initiated the remedial action on another property (VP-2L) and issued a Post Remedial Action Report for two other properties. Approximately 33,000 cubic yards of material were shipped to an off-site disposal facility. In FY 2011, remediation of

one vicinity property (VP-6L) and the final segment of the HISS/VP-2L properties will occur. This will result in the removal of the HISS rail spur which has been constructed and used by the Corps to ship material from the Latty Site. Approximately 15,000 cubic yards of contaminated material will be shipped off site.

St. Louis Downtown Site
St. Louis

In accordance with the signed Record of Decision, in FY 2009, the **St. Louis District** continued the response action for the Mallinckrodt Plant 6 West area, initiated remedial activity for one vicinity property and completed remedial activity for one vicinity property. St. Louis District removed and disposed of more than 12,500 cubic yards of contaminated soils. In addition, the district submitted the Remedial Investigation sampling plan for the inaccessible soils operable unit at the downtown site to the regulators.

St. Louis Downtown Sewer Replacement

In FY 2010, the district completed the inaccessible soils operable unit sampling plan and the associated field work, and will complete an internal draft Remedial Investigation Report. Remedial activity will be completed for Plant 6W and a St. Louis Downtown Site vicinity property, with 12,000 cubic yards of contaminated soil expected to be removed.

Fiscal year 2011 funding will be used to complete the Remedial Investigation and Feasibility Study for the inaccessible soils operable unit as well as for completion of the remediation of Plant 7N Hazardous Waste Storage area and a St. Louis Downtown Site vicinity property.

DuPont Chambers Works
Deepwater, N.J.

In FY 2009, the **Philadelphia District** completed the Remedial Investigation and Baseline Risk Assessment Reports for this 750-acre active chemical plant on the southeastern shore of the Delaware River.

DuPont Aerial Photo

In FY 2010, the district completed the draft site-wide Feasibility Study for regulatory review and comment and began working on the Proposed Plan.

During FY 2011, the district will complete the Proposed Plan, issue it for public comment, and after analyzing the input received, will develop the draft Record of Decision for regulatory review and comment.

Maywood Chemical Superfund Site
Maywood, N.J.

A combination of 88 private and government-owned properties, this site is listed on the National Priorities List. The **New York District** used its 2010 funding to continue remediation for the remainder of the soils at the site and to complete the development of a Groundwater Feasibility Study and Proposed Plan. The Groundwater Feasibility Study and Proposed Plan has been approved by the U.S. Environmental Protection Agency and was released for public comment in September 2010.

In FY 2010, the district has been working three different actions: continuing the remediation of the soils under the Record of Decision, completing the groundwater Feasibility Study and Proposed Plan, and initiating the groundwater Record of Decision. More than 65,000 cubic yards of contaminated

material have been shipped in FY 2010. Receipt of ARRA funding allowed the acceleration of work in support of proposed infrastructure improvements, beginning remediation of the last two vicinity properties, and acceleration of remediation on two of the largest vicinity properties, including remediation of two NRC-licensed burial pits. The district plans to complete the groundwater Record of Decision and continue the soils remediation in FY 2011.

Maywood Load-Out Facility

Middlesex Sampling Plant
Middlesex, N.J.

In 2008, **New York District** completed the soils remediation and continued the groundwater Feasibility Study and Proposed Plan for this Federal Government-owned site, which is listed on the National Priorities List.

In FY 2010, the district evaluated bedrock groundwater contamination underlying the site. The New York District expects to use FY 2011 funding to complete the groundwater fractured bedrock off-site delineation.

Wayne Interim Storage Site,
Wayne, N.J.

On May 15, 2000, the Deputy Commander for Civil Works of the U.S. Army Corps of Engineers issued a Record of Decision for the Wayne Interim Storage Site that addressed the excavation and off-site disposal of radioactively contaminated soil and debris from the former W.R. Grace/Wayne Interim Storage Facility. During implementation of the remedial action selected under the Record of Decision, **New York District** identified contaminated soils above cleanup levels under the County roadway adjacent to the Wayne Interim Storage Site. It was suspected that contaminated soils above cleanup levels existed beneath this roadway but were considered inaccessible. The Explanation of Significant Differences for the Record of Decision stated that if these inaccessible soils were made accessible in the future the Corps would conduct an investigation to determine whether or not they contain contaminants above the Record of Decision cleanup levels.

The Corps had been working with Passaic County to coordinate efforts for field work in the event the soils were made accessible, which was expected to occur as a result of planned Passaic County road work. In 2009 ARRA funding was made available to the project to conduct field work allowing the District to fully characterize the roadways. The field work that occurred in August 2009 resulted in areas of contamination requiring further remediation. New York District conducted this remediation effort in August 2010.

All ARRA funds were expended in 2009 and 2010. Reporting and closeout efforts will continue into FY 2011 with non-ARRA funding.

Colonie Site
Colonie, N.Y.

At the former National Lead Industries Site, now called the Colonie Site, the **New York District** used FY 2008 funding to complete the removal action under the revised action memorandum. The District, in FY 2009, completed the groundwater Feasibility Study and Proposed Plan for the site. In FY 2010 a groundwater Record of Decision was finalized for the site.

The district plans to use FY 2011 funding to complete the evaluation of vicinity properties the Department of Energy cleaned up and prepare a Soils Proposed Plan and Record of Decision.

Guterl Specialty Steel
Lockport, N.Y.

The 70-acre former Guterl Specialty Steel Site, also known as Simonds Saw and Steel Corporation, is located in Lockport, N.Y. During FY 2009, the **Buffalo District** continued preparation of a Remedial Investigation Report characterizing radiological contamination at the site. This report was completed and released in FY 2010. A public information session has been scheduled for FY 2011 to update the community on the status of Corps activities at the site. The site Feasibility Study will begin in FY 2011. Annual site monitoring and surveillance will continue.

Guterl Site Well Sampling

Former Linde Air Products
Tonawanda, N.Y.

Located in Tonawanda, N.Y., the Linde Site is a 135-acre site currently owned and operated by Praxair, Inc. The Tonawanda Landfill, a vicinity property to the Linde Site, is reported separately in this update. Along with continuing to remediate the Linde Site soils, the **Buffalo District** removed several buildings from the site in FY 2009. Remediation of the Linde Site continued in FY 2010 with approximately 172,265 cubic yards of contaminated material excavated and shipped to out-of-state disposal facilities to date. Buffalo District conducted a Five-Year Review to evaluate the effectiveness and protectiveness of selected remedial actions contained within the Record of Decision for the Linde Site soils. Remediation of the site will continue through FY 2012.

Linde Site Excavation

Niagara Falls Storage Site
Lewiston, N.Y.

In FY 2010, the **Buffalo District** developed a Remedial Investigation Report addendum for this 191-acre federally owned site, located in Lewiston, N.Y., 19 miles northwest of Buffalo. This addendum addresses findings of additional investigation activities conducted in response to public and agency comments on the original Remedial Investigation Report released in 2007. Additionally, the Buffalo District used ARRA funding to award contracts associated with developing a thorough administrative record file for the site, demolishing Building 401, and installing a security system. The Buffalo District also continued making progress on its phased approach to the Feasibility Study by drafting the first technical memorandum, which now is undergoing internal review and comment.

The Buffalo District performs daily site maintenance, monitoring and surveillance activities at the Niagara Falls Storage Site, which contains a 10-acre Interim Waste Containment Structure. The district has an active outreach program for this site that included quarterly community workshops and regular e-mail updates to the community in FY 2010. The District also began efforts to procure a technical facilitator for the community.

The Buffalo District currently is scheduled to complete and release the Remedial Investigation Report Addendum for the site in FY 2011 as well as the first two technical memorandums associated

with the Feasibility Study. The District will continue to conduct daily site maintenance, monitoring and surveillance activities to verify the integrity of the Interim Waste Containment Structure and continue periodic public workshops with a technical facilitator to allow full community involvement and understanding of the CERCLA process and path forward at this site. The District also intends to expand the site's environmental surveillance program in FY 2011.

Niagara Falls Storage Site Building 401

Seaway Industrial Park
Tonawanda, N.Y.

The Seaway Site, a 93-acre commercial landfill located in Tonawanda, N.Y., a suburb of Buffalo, is currently in the Remedial Design phase. The Corps of Engineers signed the Record of Decision for the Seaway Site in FY 2009, which identified Containment with Limited Off-Site Disposal as the Selected Remedy for the site. In FY 2010, the **Buffalo District** began preliminary remedial design activities for the Seaway Site.

In FY 2011, the Buffalo District will continue preliminary remedial design activities. Site remediation is scheduled to begin in 2016, pending completion of other sites currently under remediation and the availability of program funding.

Sylvania Corning Plant
Hicksville, N.Y.

Sylvania Corning, Hicksville

From 1952 to 1965, the Sylvania Corning Plant, located in Hicksville, N.Y., operated under contracts with the Atomic Energy Commission for research, development and production primarily in support of the government's nuclear weapons program. From 1952 to 1967, a second operation concentrated on AEC-licensed work primarily for the production of reactor fuel and other reactor core components.

The Remedial Investigation and Baseline Risk Assessment, initiated earlier by the **New York District,** were completed in FY 2010 using ARRA funding. Stakeholder coordination at the site continues. The district plans to use FY 2011 funding to complete an evaluation of off-site groundwater contamination in advance of performing a Feasibility Study.

Tonawanda Landfill
Tonawanda, N.Y.

The Tonawanda Landfill Vicinity Property, a 55-acre municipal landfill located in Tonawanda, New York, a suburb north of Buffalo, is currently in the Remedial Investigation phase. This Linde Site Vicinity Property consists of two operable units: the Tonawanda Landfill Operable Unit (OU) and the Mudflats OU. The **Buffalo District** completed work at the Mudflats OU in FY 2008 with a No-Action Record of Decision.

The Buffalo District awarded a contract in FY 2009 to conduct Phase 2 Remedial Investigation sampling in the Landfill OU, using funds provided by the ARRA. The Phase 2 Remedial Investigation sampling was conducted in FY 2010.

Tonawanda Landfill Soil Sampling

In FY 2011, the Buffalo District will use the data collected during the Phase 2 Remedial Investigation sampling to update the Baseline Risk Assessment, to confirm whether the FUSRAP-related material within the landfill poses a hazard to human health and the environment that requires action under CERCLA.

Harshaw Chemical Company *Cleveland*

Harshaw Site Gamma Walkover

In FY 2009, the **Buffalo District** completed the Remedial Investigation Report for the 55-acre Harshaw Chemical Company Site, located three miles south of downtown Cleveland. In FY 2010 the district met with the public to explain results of the Remedial Investigation. Also, a no action Proposed Plan was released in FY 2010 for a six-acre area of the Harshaw Site, known as Investigative Area 06, which was not used in process-related activities associated with FUSRAP. Buffalo District conducted a public meeting for the Proposed Plan in May 2010 to receive input from the community regarding the plan. The Record of Decision for that portion of the site will be completed and released in FY 2011. Work on the Feasibility Study for the remainder of the site was initiated in FY 2010 and will continue in FY 2011.

Luckey Site, *Luckey, Ohio*

Luckey Site Information Session

The Luckey Site is a 40-acre site, 24 miles southeast of Toledo. **Buffalo District** used FY 2009 ARRA funds to conduct pre-design sampling and analysis, which was performed in FY 2010 in preparation for beginning the Remedial Action phase that currently is scheduled to begin in 2014. The District also conducted a public information session in FY 2010 to update the community on the status of site activities.

The Buffalo District will complete the installation of additional monitoring wells in FY 2011 and continued performing annual groundwater monitoring. A report on the work performed using ARRA funding will be released in FY 2011. Fiscal year 2011 funding also will be used to continue with remedial design, dispose of investigation derived waste, complete an aerial historic photo analysis, and conduct annual groundwater sampling.

Painesville Site
Painesville, Ohio

Painesville Site dust control agent application

The Painesville Site, a 30-acre privately owned site 22 miles northeast of Cleveland, Ohio, is currently in the Remedial Action phase. The **Buffalo District** awarded a remediation contract for the Painesville Site in FY 2009, using funds provided by the ARRA. In the first half of FY 2010 the Buffalo District completed the remediation work plans for the site, and site remediation resumed in June 2010. The Buffalo District sponsored a public availability poster session near the site in April 2010 to inform interested community members about site remediation activities.

In FY 2011, the Buffalo District will continue site remediation, using innovative soil-segregation technology to ensure that only soils above the cleanup level are shipped for disposal. Site remediation currently is scheduled for completion in FY 2012.

Shallow Land Disposal Area
Parks Township, Pa.

Pittsburgh District completed the Final Status Survey Plan and continued remediation planning at this 44-acre site, northeast of Pittsburgh, in FY 2009.

Remedial infrastructure construction began in FY 2010. The main features include a material processing building, site access road, and waste water treatment facility. This preparatory construction will be completed in late fall of 2010. The district also conducted several meetings with concerned residents about the work at the site.

ARRA funds were redirected from the project to the Shpack Landfill Site.

Excavation of trench material is expected to begin in FY 2011.

Shallow Land Disposal Area

Superior Steel
Carnegie, Pa.

The former Superior Steel Site, located in Scott Township near Carnegie, Pa. was added to FUSRAP in FY 2008. In FY 2010, the **Buffalo District** engaged the Pennsylvania Department of Environmental Protection to coordinate Corps activities on the project. The district also completed a Historic Aerial Photograph Analysis of the property. In FY 2011, the Buffalo District will gather information on historic site operations to begin project scoping for a subsequent remedial investigation that is planned to be awarded in FY 2012.

Potential New Sites

The DOE considered several hundred sites in the public and private sectors with the potential to have low-level radioactive contamination remaining as a result of work done in support of the Nation's early atomic energy and weapons program. Of these sites, DOE designated a limited number for cleanup under FUSRAP and eliminated the others from further consideration at that time. When new information becomes available, DOE notifies the Corps of that information and the status of eliminated sites can be changed to eligible according to FUSRAP criteria.

The **New York District** is preparing preliminary site assessments for two potential additions to FUSRAP: the Middlesex Municipal Landfill in Middlesex, N.J., and the Staten Island Warehouse Dock in Staten Island, N.Y.

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 June 26, 2001, to accompany the Energy and Water Development Appropriations Act 2002, Public Law 107-66. For more information, please call 202-528-4285, or e-mail candice.s.walters@usace.army.mil

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