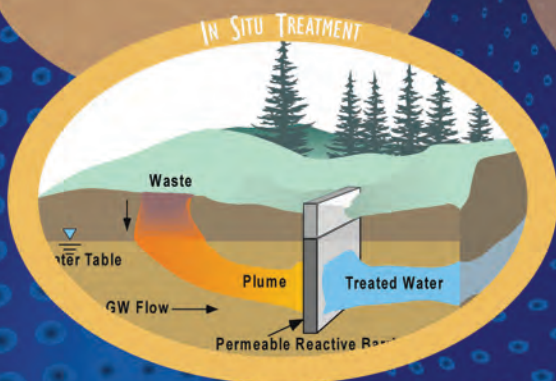
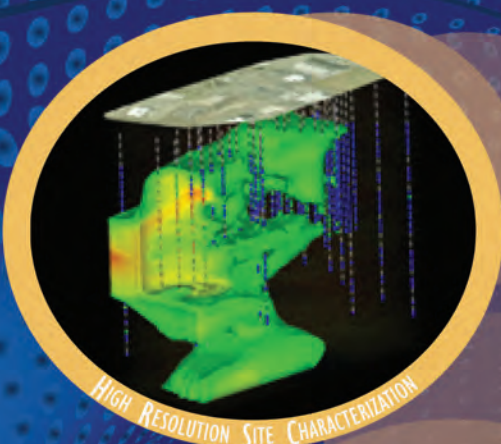
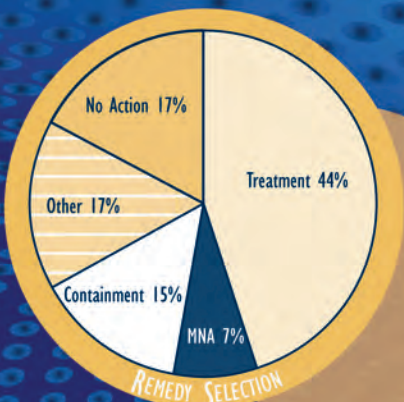


Superfund Remedy Report

Thirteenth Edition, September 2010



Office of Solid Waste
and Emergency Response
(5203P)

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Superfund Remedy Report

Thirteenth Edition, September 2010



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Acronyms

ASR	Annual Status Report	MNA	Monitored natural attenuation
C3	Cryogenic compression and condensation	NAPL	Non-aqueous phase liquids
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	NCP	National Oil and Hazardous Substances Pollution Contingency Plan
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System	NPL	National Priorities List
CLU-IN	Hazardous Waste Cleanup Information	nZVI	Nanoscale zero valent iron
DCA	1,2-dichloroethane	OSRTI	Office of Superfund Remediation and Technology Innovation
DHC	<i>Dehalococcoides sp.</i>	OSWER	Office of Solid Waste and Emergency Response
DNAPL	Dense non-aqueous phase liquids	P&T	Pump and Treat
EPA	U.S. Environmental Protection Agency	PCE	Perchloroethene
ESD	Explanation of Significant Differences	POTW	Publicly owned treatment works
FRTR	Federal Remediation Technologies Roundtable	ppm	Parts per million
FY	Fiscal year	PRB	Permeable reactive barrier
GW	Groundwater	ROD	Record of Decision
H₂O₂	Hydrogen peroxide	ROD-A	ROD Amendment
HDPE	High density polyethylene	SDMS	Superfund Document Management System
IC	Institutional controls	SRR	Superfund Remedy Report
ISCO	In situ chemical oxidation	SVE	Soil vapor extraction
MCL	Maximum contaminant level	USEPA	U.S. Environmental Protection Agency
		UV	Ultraviolet
		VEB	Vertical engineered barrier
		VOC	Volatile organic compound



Superfund Remedy Report

Executive Summary

The U.S. Environmental Protection Agency (EPA) has prepared the Superfund Remedy Report (SRR), which was formerly called the *Treatment Technologies for Site Cleanup: Annual Status Report (ASR)*. The SRR presents the analysis of Superfund remedial actions based on: (1) remedies selected in Records of Decision (ROD) and ROD amendments and (2) actions modified in Explanations of Significant Differences (ESD) from fiscal years (FY) 2005–2008 (FY 2005–08). The SRR also follows trends in remedy selection using ASR data through FY 2004 combined with SRR data. The SRR evaluates general remedy selection information and specific information on source control and groundwater remedy selection.

This analysis is a snapshot of recent remedy selection trends. Many of the sites in this report may have had other response actions, either removal actions or remedial actions, selected and conducted prior to FY 2005. Many sites address multiple sources and multiple inter-related media with one or more decision documents.

In general, the Superfund remedial program continues to select treatment as a primary component of decision documents that involve source control, groundwater, or both, which is consistent with the preference for treatment in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). The Superfund remedial program continues to address complex sites involving multiple contaminated media by selecting remedial actions with a number of different components, including innovative and established *in situ* treatment technologies. In addition, the Superfund remedial program is more widely using institutional controls (IC) as a component of source control and groundwater remedial actions to enhance their

effectiveness and protectiveness in the FY 2005–08 versus FY 1982–2004 time period. Increased knowledge and improved state programs facilitate using ICs as components of remedial actions.

The analysis of source control remedial actions indicates that the Superfund remedial program continues to select a treatment component for nearly half of all source control remedies. Of the source control remedial actions with a treatment component, approximately half include an *in situ* treatment component. Soil vapor extraction (SVE), solidification/stabilization, multi-phase extraction, and *in situ* thermal treatment were the most frequently selected *in situ* treatment technologies for sources. Solidification/stabilization continued to be the most frequently selected *ex situ* treatment technology while the selection of incineration decreased compared to its rate of selection in ASR 12th edition.

The analysis of groundwater remedial actions indicates that the Superfund remedial program continued its upward trend for the selection of *in situ* groundwater treatment remedies, but that the trend may be leveling off at around 30 percent of all groundwater treatment remedies. Bioremediation and chemical treatment are the most frequently selected *in situ* groundwater treatment technologies, and their selection has increased compared to their rate of selection in ASR 12th edition. The selection of groundwater pump and treat (P&T) has leveled off, while the selection of *in situ* treatment, monitored natural attenuation (MNA), and ICs has increased. The increase in the percentage of remedies using ICs is attributable in part to EPA's diligence in documenting the effectiveness and use of ICs as a component of remedies.

The SRR includes a project highlight about use of each of the following: green remediation concepts, *in situ* bioremediation, and high-resolution site

characterization. The SRR also identifies opportunities for conducting further analysis of remedy selection trends.

I. Purpose and Introduction

This report was prepared by the EPA Office of Superfund Remediation and Technology Innovation (OSRTI). It presents a snapshot of Superfund remedial actions selected in RODs and ROD amendments (collectively referred to as RODs) and actions modified in ESDs issued during FY 2005–08 for sites currently final on and deleted from the National Priorities List (NPL). The SRR does not include non-NPL sites, sites that are proposed for but not final on the NPL, or Superfund Alternative Sites. The data compiled and analyzed for this SRR build on the data used to generate 12 editions of *Treatment Technologies for Site Cleanup: Annual Status Report (ASR)* (which covered the time frame from FY 1982 through a portion of 2005). Where appropriate, trends in remedy selection for FY 2005–08 are compared with trends in remedy selection as reported in ASR 12th edition (September 2007). ASR 12th edition also analyzed remedies at sites final on and deleted from the NPL. This report and ASR 12th edition overlap in FY 2005. ASR 12th edition covered approximately 75 percent of the RODs issued in FY 2005, while this report covers all decision documents issued in FY 2005.

This report also highlights how recent trends in remedy selection relate to new and ongoing initiatives and advances in contaminated site management, such as green remediation, high-resolution site characterization, and *in situ* bioremediation.

The SRR includes eight sections.

- Section I discusses the purpose and introduces the report.
- Section II describes the approach used to collect and analyze data.
- Section III discusses overall trends in remedy selection.
- Section IV discusses source control remedies.
- Section V discusses groundwater remedies.

- Section VI presents conclusions.
- Section VII discusses observations, highlights, and further analysis.
- Section VIII lists the sources of the data used for this report and provides information on how to access the electronic version of this report and previous editions of ASR.

II. Approach

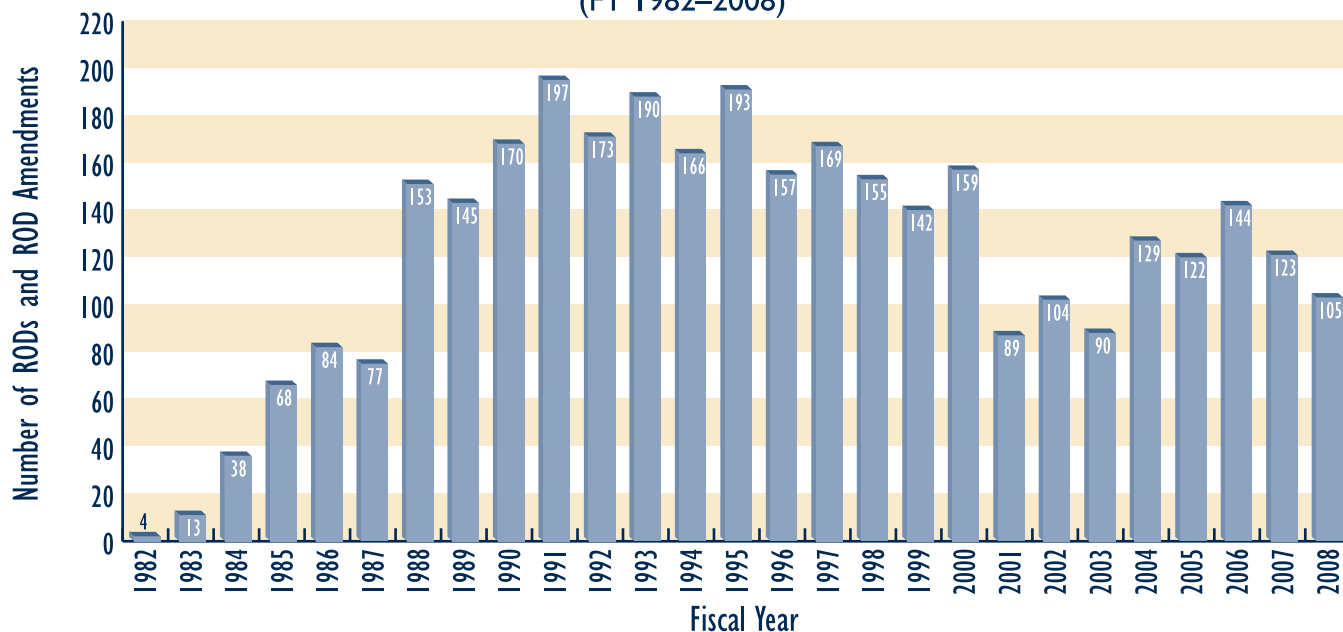
The EPA used data available in the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) as of July 2009 and reviews of decision documents to compile information about remedy selection. CERCLIS data are continually updated; therefore, current queries may not match the query on which this report is based. The data used in this analysis consist of remedies selected in decision documents, which include RODs, ROD amendments, and select ESDs. Only ESDs with a remedy component were included in the data set. The report does not use project information generated after the decision document was signed. Since 1982, 1,620 sites have been finalized on the NPL and 343 sites have been deleted from the NPL. There are 1,277 sites on the NPL currently. Figure 1 depicts the number of RODs and ROD amendments issued each year from FY 1982–2008. In total, 594 decision documents were evaluated for FY 2005–08, which includes 494 RODs and 100 ESDs.

Rather than focusing on treatment technologies, as in past ASRs, this report analyzes all remedies, including containment and remedial components such as ICs. Appendix H of this report describes the way remedies are classified, and is only available electronically.

III. Overall Remedy Trends

EPA evaluated the general types of remedies selected at sites. Figure 2 presents a breakout of the types of remedies selected from FY 2005–08. The data in this figure include both source control and groundwater remedies and follow a hierarchy so that each decision document is included in only one category. The hierarchy used is outlined in Table 1 below. Figure 2 is consistent with the

Figure 1: Total Number of RODs and ROD Amendments Per Year
(FY 1982–2008)



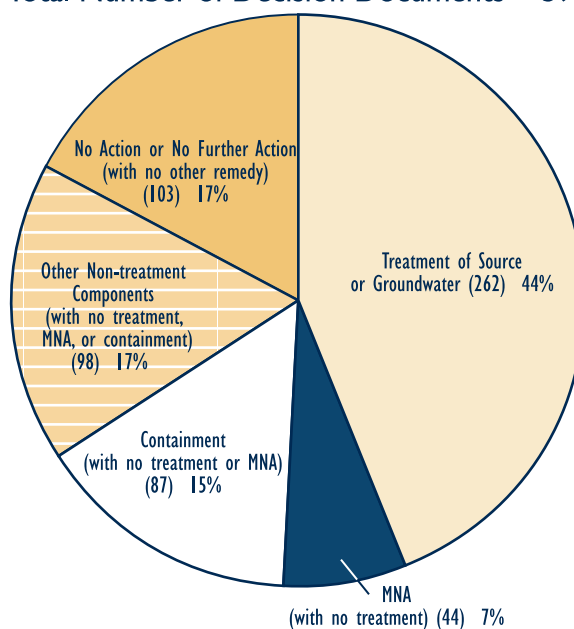
USEPA 2007a and USEPA 2009c.

Table 1: Hierarchy for Decision Documents in Figure 2

Category	Description
1. Treatment	Decision documents that select <i>in situ</i> or <i>ex situ</i> treatment of sources, groundwater, or both. These decision documents may also include monitored natural attenuation (MNA), containment, and other non-treatment components.
2. MNA	Decision documents that select groundwater MNA, but do not include source or groundwater treatment. These decision documents may also include containment and other non-treatment components.
3. Containment	Decision documents that select source containment or groundwater containment with a vertical engineered barrier (VEB) but that do not include source or groundwater treatment or groundwater MNA. These decision documents may also include other non-treatment components.
4. Other Non-Treatment Components	Decision documents that select other non-treatment components, such as ICs and monitoring, and that do not include source or groundwater treatment, source or groundwater containment, or groundwater MNA.
5. No Action/No Further Action	Decision documents that select no action/no further action and that do not include source or groundwater treatment, source or groundwater containment, groundwater MNA, or any other non-treatment components.

Figure 2: Remedies Selected in Decision Documents (FY 2005–08)

Total Number of Decision Documents = 594



- Decision documents are counted once in this figure using the following hierarchy: treatment, MNA, containment, other non-treatment components, and no action/no further action.
- Decision documents include RODs, ROD amendments, and select ESDs.

USEPA 2009c.

analysis in previous ASR reports in that nearly half of decision documents continue to select a treatment component for sources, groundwater, or both. Treatment remains a primary component of selected remedial actions. Appendix A of this report lists the type and number of *ex situ* and *in situ* source and groundwater treatment technologies by fiscal year from FY 1982–2008. Appendix B of this report contains definitions of specific source and groundwater treatment technologies selected in Superfund cleanups.

EPA evaluated the media addressed in decision documents for FY 2005–08 and classified the decision documents into four categories given in Figure 3. Only one category applies to any given decision document. Figure 3 shows the breakout of media in selected remedies for FY 2005–08 compared to the same breakout for FY 1982–2004. Over one-third of the decision documents address both source control and groundwater, which is consistent with data from previous years. This indicates that the Superfund remedial program continues to

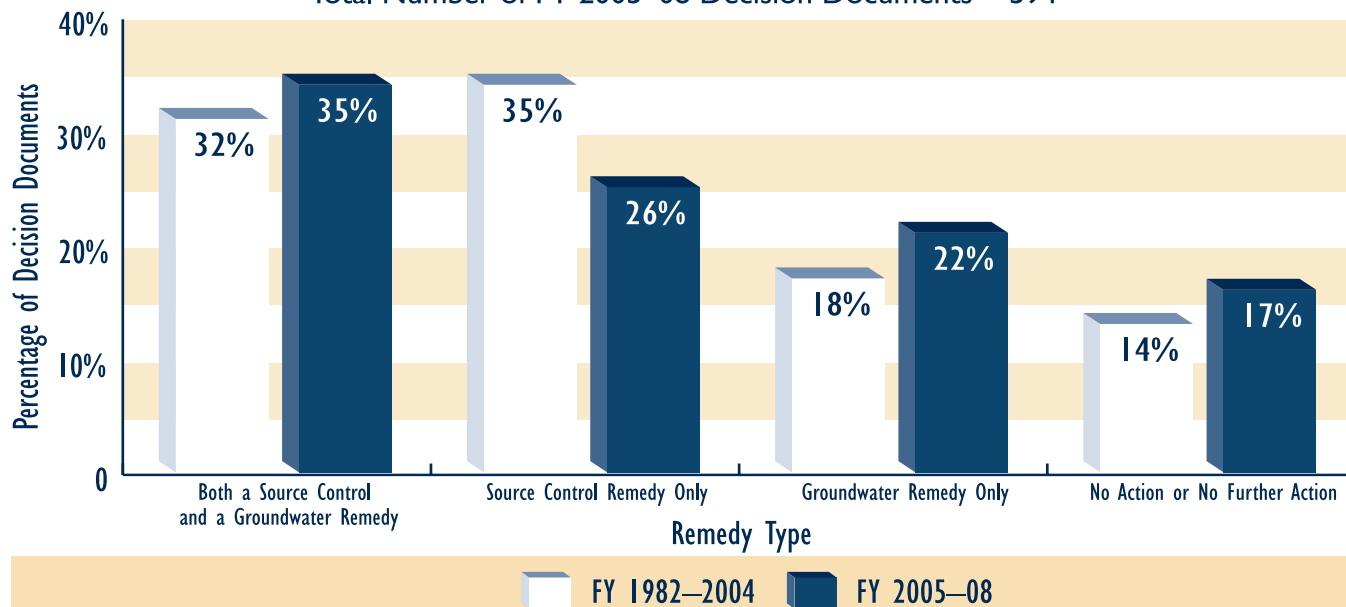
address complex sites involving multiple media. The percentage of the decision documents in each of the four categories is similar for the FY 1982–2004 and FY 2005–08 periods except for the source control only category. The percentage of decision documents addressing the source media only from FY 2005–08 is 9 percent less (26%) than the percentage of decision documents addressing the source media only from FY 1982–2004 (35%). It should be noted that future decision documents may address additional media at these sites and that not all sites have both source and groundwater media. Appendix G of this report, Remedy Selection Summary Matrix FY 2005–08, shows the media and remedy components associated with each decision document evaluated in the SRR. Appendix G is only available electronically.

Many sites address multiple sources and multiple interrelated media with one or more RODs. Often cleaning up contaminated soil or dense non-aqueous phase liquids (DNAPL) is a necessary part of restoring groundwater. Treatment of contaminated

Figure 3: Media Addressed in Decision Documents (FY 1982–2008)

Total Number of FY 1982–2004 Decision Documents = 2,862

Total Number of FY 2005–08 Decision Documents = 594



- Decision documents are only counted once in this figure as appropriate.
 - Decision documents include RODs and ROD amendments for FY 1982–2004 and RODs, ROD amendments, and select ESDs for FY 2005–08.
- USEPA 2009c.

Illustration I: Applied Superfund Terminology

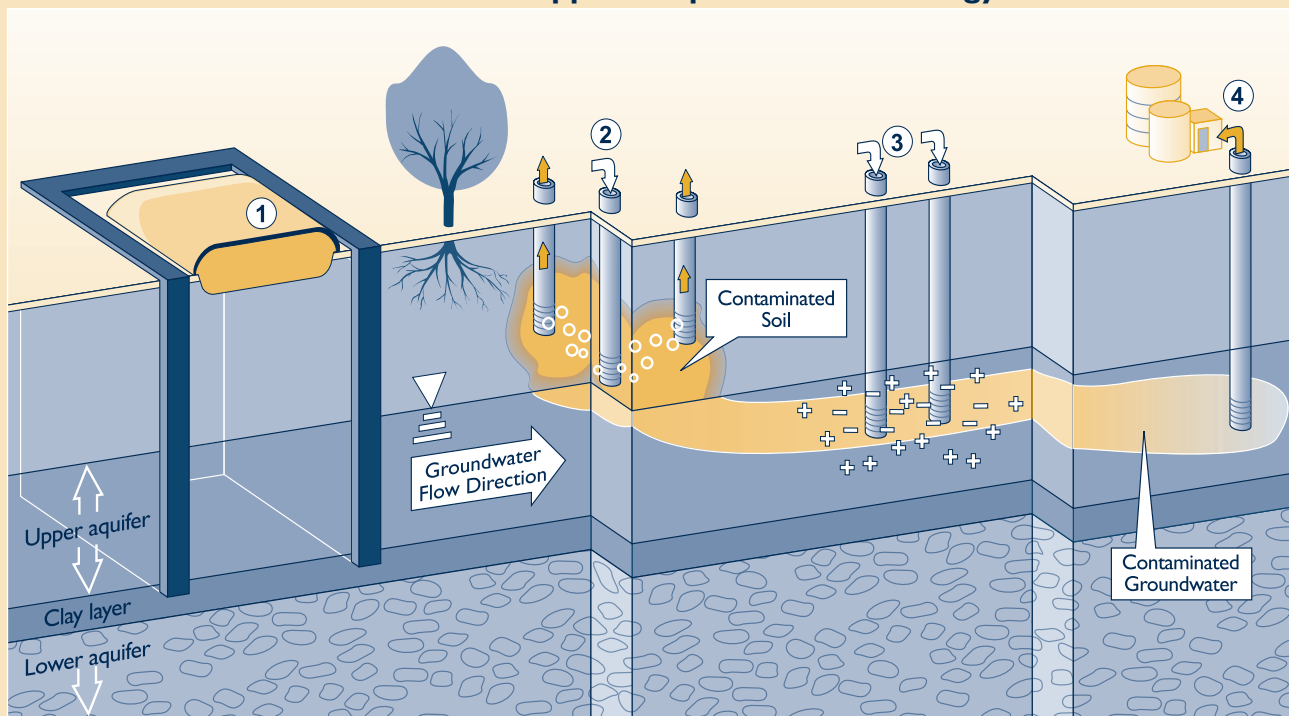


Illustration I depicts a hypothetical site with several sources and contaminated media that are addressed with source and groundwater remedies analyzed in this report. A single decision document may include multiple remedies.

Area 1 - Source Containment and Source Other (ICs): Area 1 is an existing landfill source. The landfill contains hazardous substances that present a threat to groundwater. The landfill source is being addressed with a Source Containment remedy that consists of a cap and slurry wall. The objectives of the cap and slurry wall are to (1) isolate the hazardous substances in the landfill from the soil and groundwater, and (2) prevent infiltration of precipitation into the landfill. ICs are also in place to restrict the future use of the landfill.

Area 2 - Source *In Situ* Treatment: Area 2 is a source of volatile organic compounds (VOC) in subsurface soil. The VOCs in the subsurface soil are a potential continuing source of groundwater contamination. The VOCs in soil are being addressed with the application of a soil vapor extraction (SVE) system that includes an air injection component. The objective of the SVE system is to reduce contaminant concentrations in subsurface soil to a level that will not pose a threat to the groundwater.

Area 3 - Groundwater *In Situ* Treatment and Groundwater Other (ICs): Area 3 is the contaminated groundwater in the upper aquifer. The contaminated groundwater in this area is more highly concentrated than that which has migrated farther downgradient. The contaminated groundwater in this area is being treated with the application of *in situ* chemical oxidation (ISCO), which involves the injection of chemical oxidants into the groundwater contaminant plume. The objective of the ISCO system is to reduce contaminants in the groundwater to levels that restore the groundwater to its beneficial use as drinking water. ICs are also in place to restrict use of contaminated groundwater at the site.

Area 4 - Groundwater Pump and Treat and Containment: Area 4 represents the leading edge of the groundwater contaminant plume. The concentrations of contaminants in this portion of the groundwater plume are less than those closer to the source but are still above cleanup standards. The contaminated groundwater in this area is being addressed by a groundwater pump and treat (P&T) system. The objectives of the P&T system are to (1) contain the plume and prevent it from migrating further downgradient, and (2) reduce contaminant concentrations to restore the groundwater to its beneficial use as drinking water.

Appendices B and H of this report contain definitions and descriptions of these source and groundwater remedy and technology types.

groundwater can directly impact sediment and surface water quality and protect against vapor intrusion into buildings. Illustration 1 depicts how multiple sources and multiple media might be addressed at a site. It shows how the application of several technologies can work together to address environmental problems.

IV. Source Control Remedies

Source control remedies address soil, sediment, sludge, solid-matrix wastes, or NAPL (often the source of contamination) and do not address groundwater directly. Of the 594 decision documents issued from FY 2005–08, 61 percent (362) addressed the source of contamination.

Figure 4 shows the breakout for the types of remedy components addressed by the source control decision documents from FY 2005–08. Treatment was selected in 43 percent of source control decision documents, either by itself or in some combination

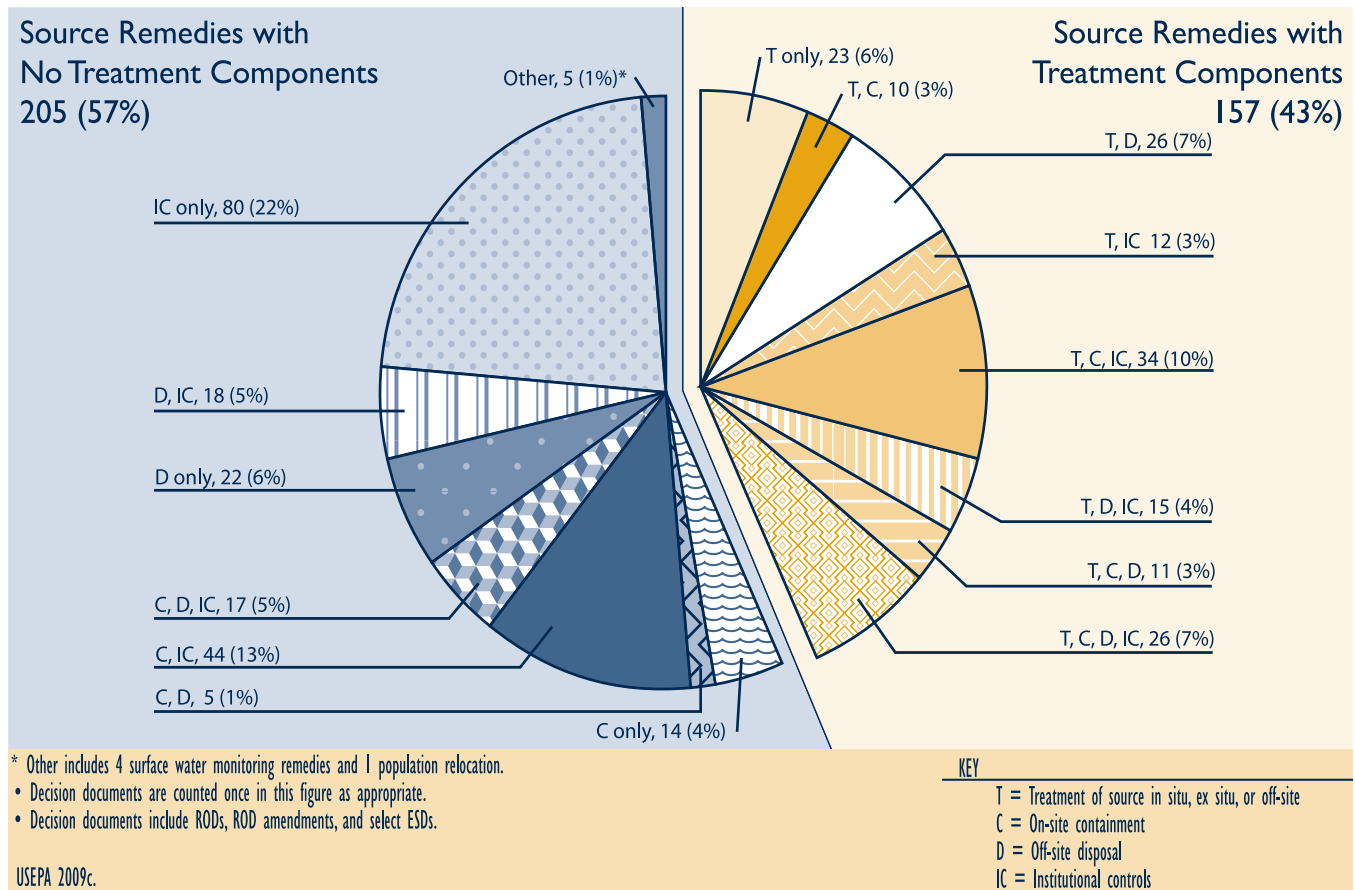
with on-site containment, off-site disposal, and ICs, which is consistent with previous analysis reported in ASR 12th edition. Most source control remedies use combinations of remedy components to address the sources.

Figure 5 tracks the trend in the types of source control remedies selected in RODs from FY 1998–2004 and in decision documents from FY 2005–08 and does not use a hierarchy. The figure shows the percentage of source control RODs and decision documents that include treatment, containment, or other remedy components. RODs and decision documents may be counted in more than one category. Figure 5 shows:

- The percentage of source control RODs and decision documents with a treatment component has remained steady since FY 1998,
- The percentage of source control RODs and decision documents with a containment

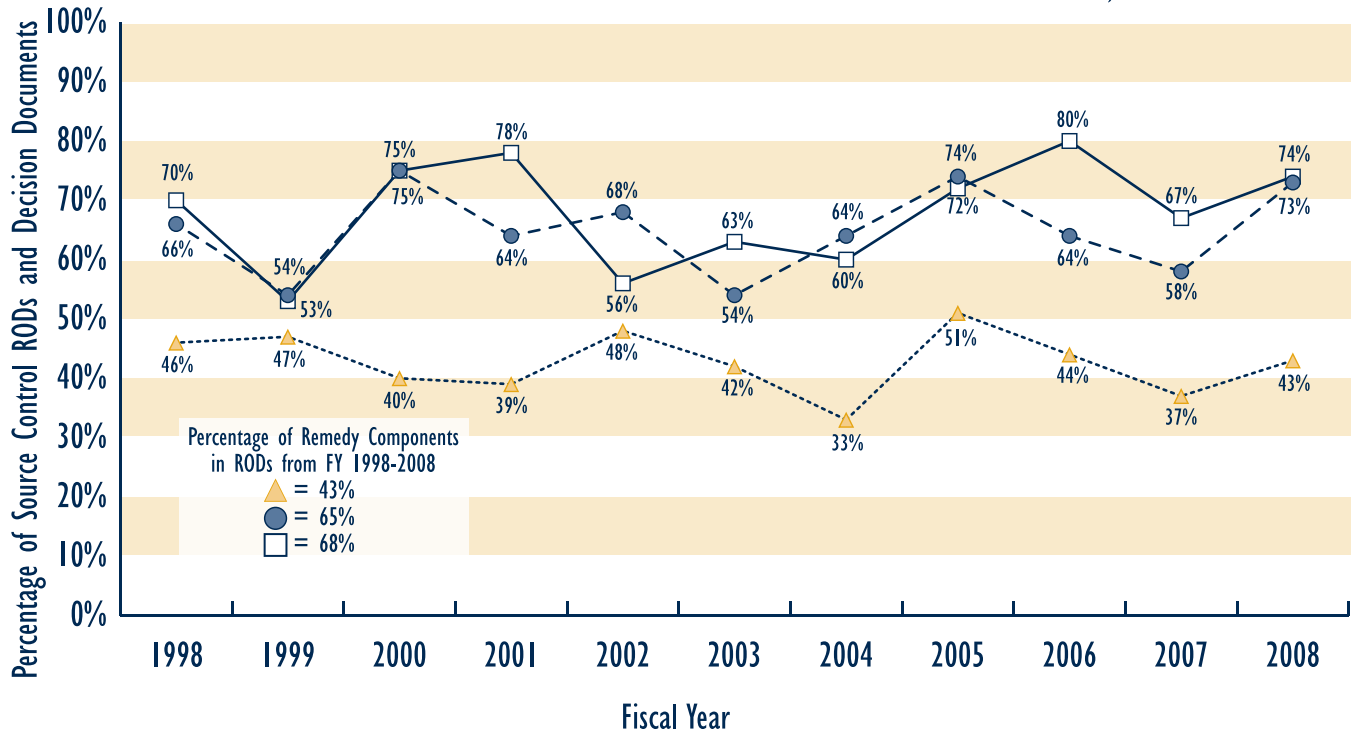
Figure 4: Categories of Source Decision Documents (FY 2005–08)

Total Number of Decision Documents = 362



**Figure 5: Trends in Types of Source Control
RODs and Decision Documents (FY 1998–2008)**

Total Number of Source Control RODs and Decision Documents = 1,010



-----▲----- Source Treatment -●- Source Containment —□— Other Source Remedy Components
 • RODs and decision documents may be counted in more than one category
 • RODs from FY 1998–2004 include RODs and ROD amendments.
 • Decision documents from FY 2005–08 include RODs, ROD amendments, and select ESDs.
 USEPA 2009c and USEPA 2007a.

- The percentage of source control RODs and decision documents that also include an “other” remedy component (such as ICs, monitoring, or relocation) has risen to as high as 80 percent in the last four years.
- From FY 1998–2008, 43 percent of source control RODs have included a treatment component, 65 percent of source control RODs have included a containment component, and 68 percent of source control RODs have included other non-treatment or non-containment components, such as ICs.

Table 2 summarizes the specific types of technologies selected in the source control treatment decision documents for FY 2005–08 and compares that

data to the project-level data for FY 1982–2004 from ASR 12th edition. The table is divided into two sections: the top section lists *in situ* technologies, and the bottom section lists *ex situ* technologies. Data from Figure 8 in ASR 12th edition were used to populate the second and third columns of Table 2. (Note that data from ASR 12th edition are based on project information, while data presented in this analysis are based solely on decision documents). SVE, solidification/stabilization, *in situ* thermal treatment, and multi-phase extraction were selected most frequently for *in situ* source treatment remedies in FY 2005–08. The selection of chemical treatment (such as *in situ* chemical oxidation [ISCO]) and *in situ* thermal treatment has increased slightly in the last four years, from 2 to 4 percent and from 1 to 5 percent, respectively.

Table 2: Source Treatment Projects from FY 1982-2004 and Source Treatment Technologies Selected in Decision Documents from FY 2005–08

Technology	Total Source Treatment Projects for FY 1982–2004	% of Source Treatment Projects FY 1982–2004	Total Source Treatment Technologies for FY 2005–08	% of Source Treatment Technologies FY 2005–08
In Situ				
Soil Vapor Extraction	244	26%	32	14%
Solidification/Stabilization	41	4%	15	7%
In Situ Thermal Treatment	10	1%	12	5%
Multi-Phase Extraction	42	4%	12	5%
Bioremediation	53	6%	9	4%
Chemical Treatment	15	2%	9	4%
Bioventing	*	--	4	2%
Flushing	17	2%	2	1%
Phytoremediation	6	1%	2	1%
Other	5 [‡]		3 [§]	
ASR 12th Technologies	8 [¶]		--	
Ex Situ				
Solidification/Stabilization	170	18%	33	14%
Physical Separation	19	2%	29	13%
Recycling	*	--	15	7%
Surface Water Treatment	†	--	11	5%
Unspecified Off Site Treatment	†	--	10	4%
Incineration (Off Site)	105	11%	6	3%
Free Product Recovery	*	--	5	2%
Composting	*	--	3	1%
Leachate Treatment	†	--	3	1%
Air Sparging	*	--	2	1%
Chemical Treatment	9	1%	2	1%
Neutralization	7	1%	2	1%
Soil Vapor Extraction	7	1%	2	1%
Unspecified On Site Treatment	†	--	2	1%
Other	14 ^{**}		5 ^{††}	
ASR 12th Technologies	178 ^{§§}		--	
Total	950		230	

* These technologies were combined with other categories in ASR 12th edition.

† These technologies were not included in any category in ASR 12th edition

‡ Electrical Separation, Mechanical Soil Aeration, and Vittrification accounted for less than 1% each of identified in situ technologies from FY 1982–2004 project data.

§ Bioslurping, Fracturing, and Volatilization accounted for less than 1% each of identified in situ technologies in FY 2005–08 decision documents.

¶ Neutralization was identified for 8 projects (1%) from FY 1982–2004, but was not selected in any FY 2005–08 decision documents.

** Mechanical Soil Aeration, Open Burn/Open Detonation, Solvent Extraction, Phytoremediation, and Vittrification accounted for less than 1% each of identified ex situ technologies in FY 1982-2004 project data.

†† Biopile, Evaporation, Open Burn/Open Detonation, Thermal Desorption, and Unspecified Thermal Treatment accounted for less than 1% each of identified ex situ technologies in FY 2005-08 decision documents.

§§ Bioremediation was identified for 60 projects (6%), On-site Incineration for 42 projects (4%), Soil Washing for 6 projects (1%), and Thermal Desorption for 70 projects (7%) from FY 1982-2004. On-site Incineration and Soil Washing were not selected in any decision documents from FY 2005-08, and Thermal Desorption was selected in less than 1% of FY 2005-08 decision documents. Bioremediation was divided into several subcategories for FY 2005-08 decision documents.

• Decision documents may be counted in more than one category. Decision documents include RODs, ROD amendments, and select ESDs.

USEPA 2009c and USEPA 2007a.

Solidification/stabilization continues to be the most frequently selected *ex situ* source treatment technology. There are, however, significant changes in the selection of several other *ex situ* treatment technologies. Both on- and off-site incineration were selected much less frequently in FY 2005–08 than in the past. Off-site and on-site incineration accounted for 15 percent of the source control treatment projects between FY 1982–2004. However, in FY 2005–08, off-site incineration was selected in only 3 percent of the decision documents, and on-site incineration was not selected. Thermal desorption was also selected less frequently than in the past. From FY 1982–2004, thermal desorption accounted for 7 percent of source treatment projects. In FY 2005–08, thermal desorption was selected in less than 1 percent of source treatment decision documents. Conversely, physical separation and recycling were selected more frequently since FY 2005. Physical separation was selected in 13 percent and recycling in 7 percent of treatment source control decision documents from FY 2005–08; physical separation accounted for 2 percent and recycling accounted for less than 1 percent of source treatment projects from FY 1982–2004. Appendix C of this report lists the source treatment technologies selected in decision documents from FY 2005–08 organized by technology. Appendix D of this report lists the source treatment technologies selected in decision documents from FY 2005–08

organized by location. Both Appendix C and D are only available electronically.

Table 3 shows the percentage of source control treatment decision documents that have selected an *in situ* treatment component from FY 2005–08 compared to source control projects that involve *in situ* treatment from FY 1982–2004. The percentage of source control treatment decision documents with *in situ* treatment ranges from 37 to 59 percent, with an average of 50 percent from FY 2005–08. The overall rate of selection for FY 2005–08 is higher than that of 46 percent from FY 1982–2004.

V. Groundwater Remedies

Of the 594 decision documents from FY 2005–08, 336 addressed groundwater contamination. Figure 6 shows the general types of groundwater remedies selected from FY 1986–2008. This figure does not use a hierarchy, thus RODs from FY 1986–2004 and decision documents from FY 2005–08 may be counted more than once. The selection of pump and treat (P&T) remedies leveled off after dropping significantly in the mid-1990s. The selection of *in situ* treatment remedies as a percent of remedy components selected has steadily increased since FY 1986 and has been fairly constant—at around 30 percent—in FY 2005–08. The selection of MNA saw a general increase from FY 1986–98, followed by a leveling off from FY 1998–2004 and a slight

Table 3: In Situ Treatment for Source Media FY 1982-2008

FY	Source Projects/ Decision Documents With In Situ Treatment	Total Source Treatment Projects/Decision Documents	% of Source Treatment Composed of In Situ Treatment
1982-2004*	441	950	46%
2005-2008			
2005	16	43	37%
2006	21	42	50%
2007	20	34	59%
2008	21	38	55%
Total 2005-08	78	157	50%
Total 1982-2008	519	1,107	47%

* FY 1982–2004 data are project-level data; FY 2005–08 are decision document-level data.

• Decision documents are counted only once in this table as appropriate.

• Decision documents include RODs, ROD amendments, and select ESDs.

USEPA 2009c and USEPA 2007a.

decline each year from FY 2005–08. The selection of other remedy components (ICs and other remedies not classified as MNA, *in situ* treatment, P&T, or containment) increased significantly in FY 1997 and has remained above 90 percent since FY 2002; 94 percent of the groundwater decision documents issued in FY 2008 selected “other” as a groundwater remedy component. Groundwater containment includes vertical engineered barriers, and continues to be selected in less than 5 percent of decision documents. Groundwater containment remedies in this report do not include P&T remedies used to control plume migration.

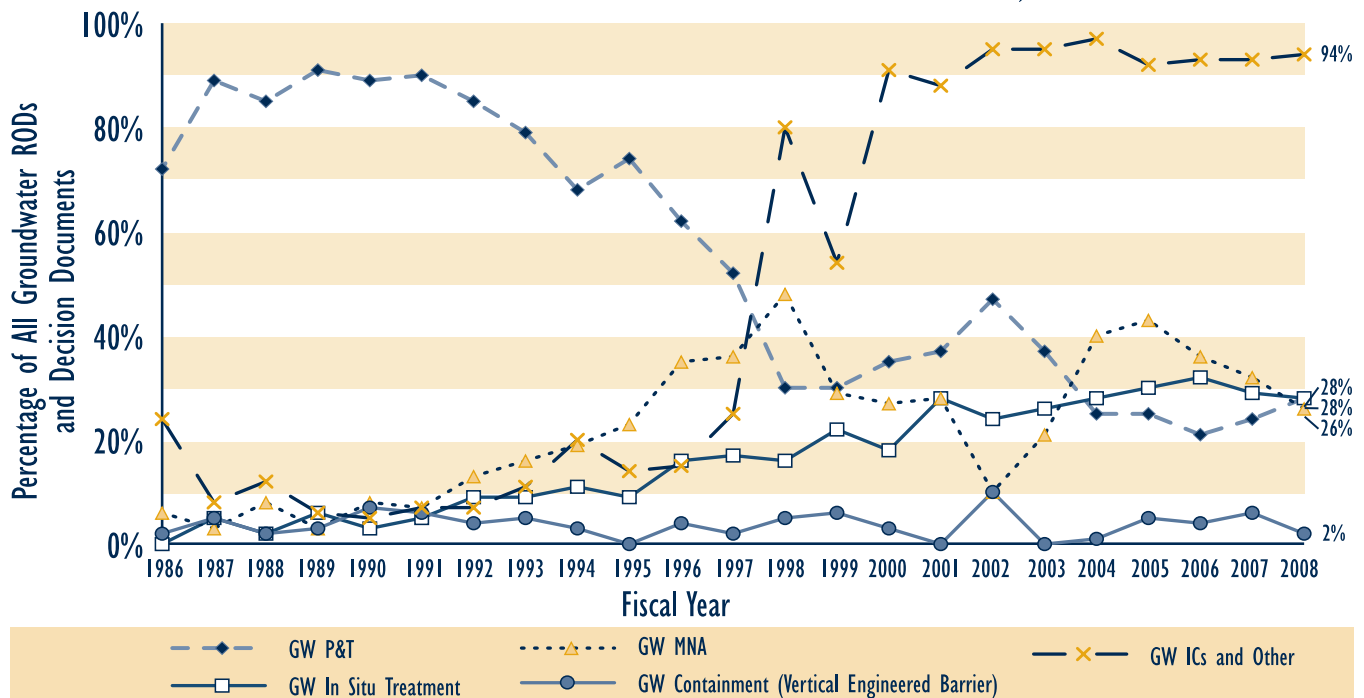
Figure 7 depicts the groundwater decision document data from FY 2005–08. Figure 7 shows the number of decision documents that selected one or more of the four groundwater remedy components: (1) groundwater P&T, (2) groundwater *in situ* treatment, (3) groundwater MNA, and (4) groundwater

ICs. The number of decision documents is depicted above each bar on the chart using the y-axis, while the percentage of groundwater decision documents that contained each of the four remedy components is shown on each bar. The total number of groundwater decision documents for each year is listed in parentheses next to the year on the x-axis. For example, in FY 2005, 22 groundwater decision documents identified P&T as a remedy component, which equates to 28 percent of the 79 groundwater decision documents issued in FY 2005. No hierarchy was used in this analysis; decision documents may be counted in more than one category.

Based on the data reflected in Figure 7, ICs were selected in 81 percent of the groundwater decision documents from FY 2005–08. Figures 6 and 7 show that P&T is being selected as a remedy component less frequently and *in situ* treatment technologies are being selected more frequently. The

Figure 6: Trends in RODs and Decision Documents Selecting Groundwater Remedies (FY 1986–2008)

Total Groundwater RODs and Decision Documents = 1,727



- Groundwater ICs and Other includes institutional controls and other components not classified as treatment, MNA, or containment, such as monitoring and alternative water supplies.

- Groundwater ICs and Other remedy components selected prior to FY 1998 may be under-represented in figure.
- RODs and decision documents may be counted in more than one category.
- RODs from FY 1986–2004 include RODs and ROD amendments.
- Decision documents from FY 2005–08 include RODs, ROD amendments, and select ESDs.

USEPA 2009c and USEPA 2007a.

number and use of ICs selected has increased over time. It should be noted that ICs are often used in conjunction with other remedy components.

Table 4 depicts the types of other groundwater remedy components selected in decision documents from FY 2005–08. Compared with FY 1982–2004 (Table 7 in ASR 12th edition, which is based on sites rather than RODs), the selection of (1) engineering controls is down from 6 percent to 1 percent, (2) ICs is up from 56 percent to 87 percent, and (3) water supply remedies are down from 13 percent to 8 percent. Historically and currently, groundwater monitoring has been identified as a remedy component in more than 75 percent of RODs and decision documents. Even when monitoring is not identified as a remedy component, nearly every groundwater remedial action includes some type of groundwater monitoring. Monitoring is typically required over a relatively long period, from several years to potentially decades.

Table 5 lists the remedy types selected in groundwater decision documents, as well as the technologies

Table 4: Decision Documents with Groundwater Other Remedies (FY 2005–08)

Total Number of Decision Documents with Groundwater Other Remedies = 311

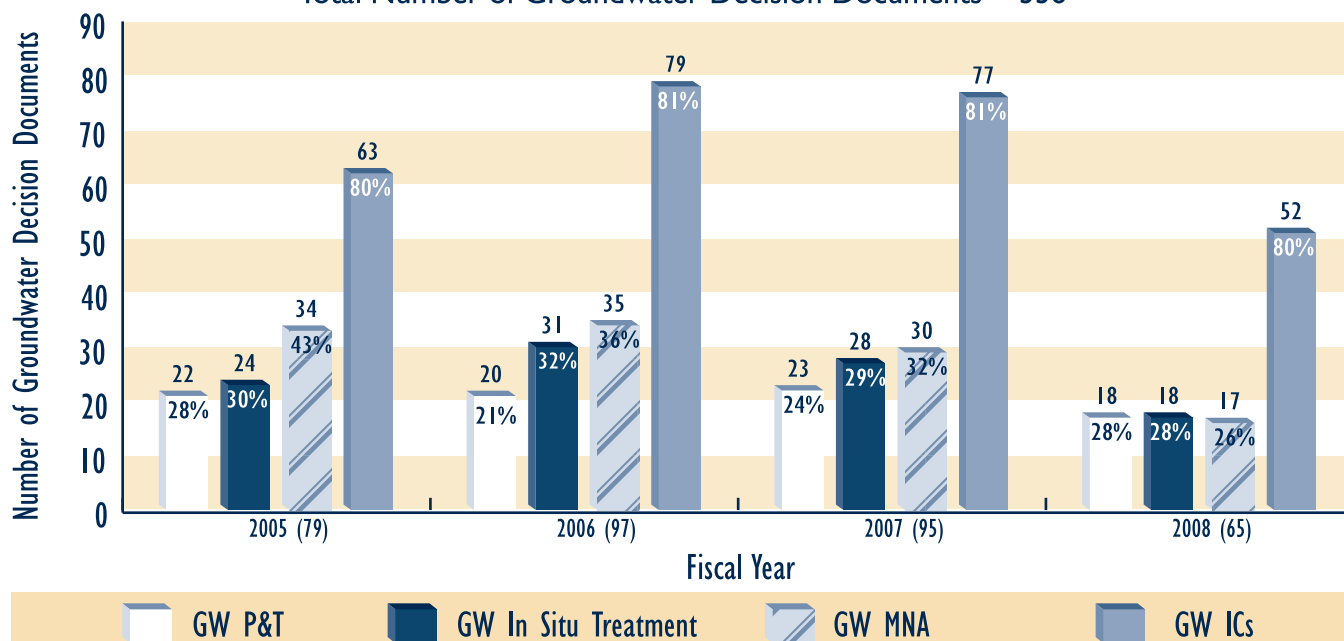
Remedy Type	Number of Decision Documents
Engineering Controls	4 (1%)
Groundwater Monitoring	239 (77%)
Institutional Controls	271 (87%)
Water Supply Remedies	26 (8%)

• Decision documents may be counted in more than one category.
• Decision documents include RODs, ROD amendments, and select ESDs.
USEPA 2009c.

selected for the various remedy types for FY 2005–08. Appendix E of this report lists the remedy types in decision documents selecting groundwater remedies from FY 2005–08 organized by technology. Appendix F of this report lists the remedy types in decision documents selecting groundwater remedies from FY 2005–08 organized by location. Both Appendix E and F are only available electronically. Table 6 lists the specific techniques identified

Figure 7: Decision Documents Selecting Groundwater Remedies (FY 2005–08)

Total Number of Groundwater Decision Documents = 336



- Decision documents may be counted in more than one category.
- Decision documents include RODs, ROD amendments, and select ESDs.

USEPA 2009c.

Table 5: Remedy Types in Decision Documents Selecting Groundwater Remedies
(FY 2005–08)

Remedy Types and Technologies	2005	2006	2007	2008	Total
Groundwater Pump and Treat	22	20	23	18	83
In Situ Treatment of Groundwater	24	31	28	18	101
Bioremediation	13	20	17	12	62
Chemical Treatment	9	11	14	4	38
Air Sparging	5	2	1	2	10
Permeable Reactive Barrier	3	3	1	1	8
Phytoremediation	0	2	1	0	3
Fracturing	1	0	0	0	1
Multi-Phase Extraction	1	0	0	0	1
Unspecified Physical/Chemical Treatment	0	0	1	0	1
MNA of Groundwater	34	35	30	17	116
Groundwater Containment (Vertical Engineered Barrier)	4	4	6	1	15
Other Groundwater	73	90	88	61	312
Institutional Controls	63	79	77	52	271
Monitoring	62	80	58	39	239
Alternative Water Supply*	6	6	5	9	26
Engineering Control†	0	1	3	0	4
Total of Remedy Types	157	180	175	115	627

• Decision documents may be counted in more than one category.

• Decision documents include RODs, ROD amendments, and select ESDs.

* Alternative water supply includes alternative drinking water, well-head treatment, installation of new water supply wells, increasing capacity of existing water treatment plant, and treat at use location.

† Engineering control includes sewer/sump abandonment and the use of trees for hydraulic gradient control.

USEPA 2009c.

**Table 6: In Situ Bioremediation and Chemical Treatment Techniques
Selected in Groundwater Decisions Documents**
(FY 2005–08)

Technologies and Techniques	2005	2006	2007	2008	Total
Bioremediation					
Bioremediation (In Situ)	13	20	17	12	62
Bioaugmentation	0	0	0	2	2
Co-Metabolic Treatment	0	0	0	1	1
Aeration	0	0	0	1	1
Chemical Treatment					
In Situ Chemical Oxidation (ISCO)	9	11	13	3	36
Nanoscale Zero Valent Iron (nZVI), (In Situ)	0	0	1	0	1
Ozone Sparging	0	0	0	1	1

• Decision documents may be counted in more than one category.

• Decision documents include RODs, ROD amendments, and select ESDs.

USEPA 2009c.

for selected technologies. Compared with the period before FY 2005, there has been an increase in selection of bioremediation and chemical treatment (such as ISCO) for groundwater treatment. Bioremediation and chemical treatment made up the majority of the *in situ* technologies selected from FY 2005–08. Of the 101 groundwater decision documents that selected *in situ* treatment, 62 identified bioremediation and 38 identified chemical treatment as technologies to be used. Note that decision documents may include more than one remedy component.

Figure 8 shows the breakout of sites selecting P&T, *in situ* treatment, and MNA as part of the groundwater remedy from FY 2005–08. Comparing data from FY 1982–2004 (Figure 14 in ASR 12th edition) with the data from FY 2005–08, trends in remedy selection are as follows:

- Sites with P&T only have decreased significantly from 56 percent to 19 percent.
- Sites with *in situ* treatment only have increased from 4 percent to 18 percent.
- Sites with *in situ* treatment and MNA have increased from 2 percent to 17 percent.
- Sites with MNA only have increased from 11 percent to 21 percent.
- Of the 34 sites with MNA only, 82 percent had a prior decision document with a source control remedy, groundwater remedy, or both.

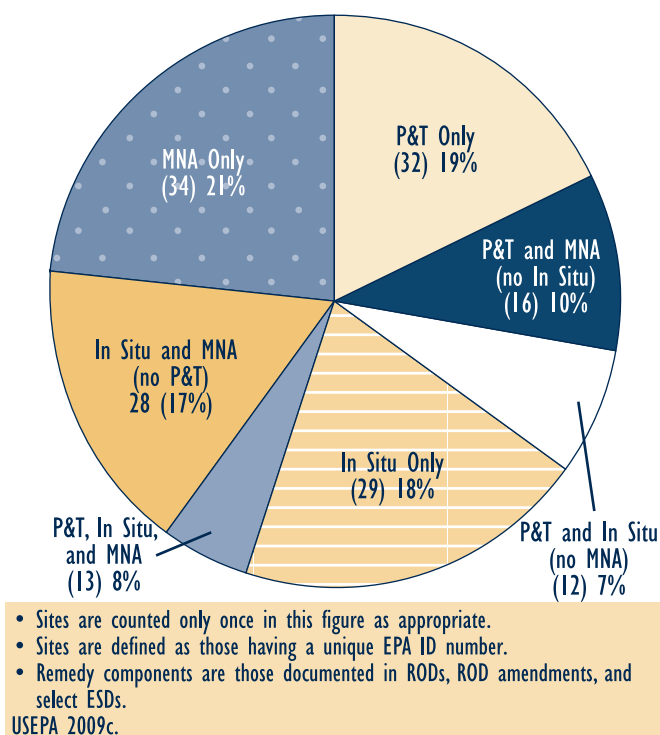
Figure 9 shows the trend in selection of *in situ* treatment as a component of groundwater RODs from FY 1986–2004 and groundwater decision documents from FY 2005–08. As the graph shows, selection of *in situ* treatment as a percentage of groundwater decision documents has followed an upward trend since FY 1986 but appears to be leveling off at about 30%.

VI. Conclusions

EPA's analysis of decision document data from FY 2005–08 indicates the following with regard to Superfund remedies in general:

Figure 8: Sites with P&T, In Situ Treatment, or MNA Selected as Part of a Groundwater Remedy (FY 2005–08)

Total Number of Sites with Groundwater Treatment or MNA = 164



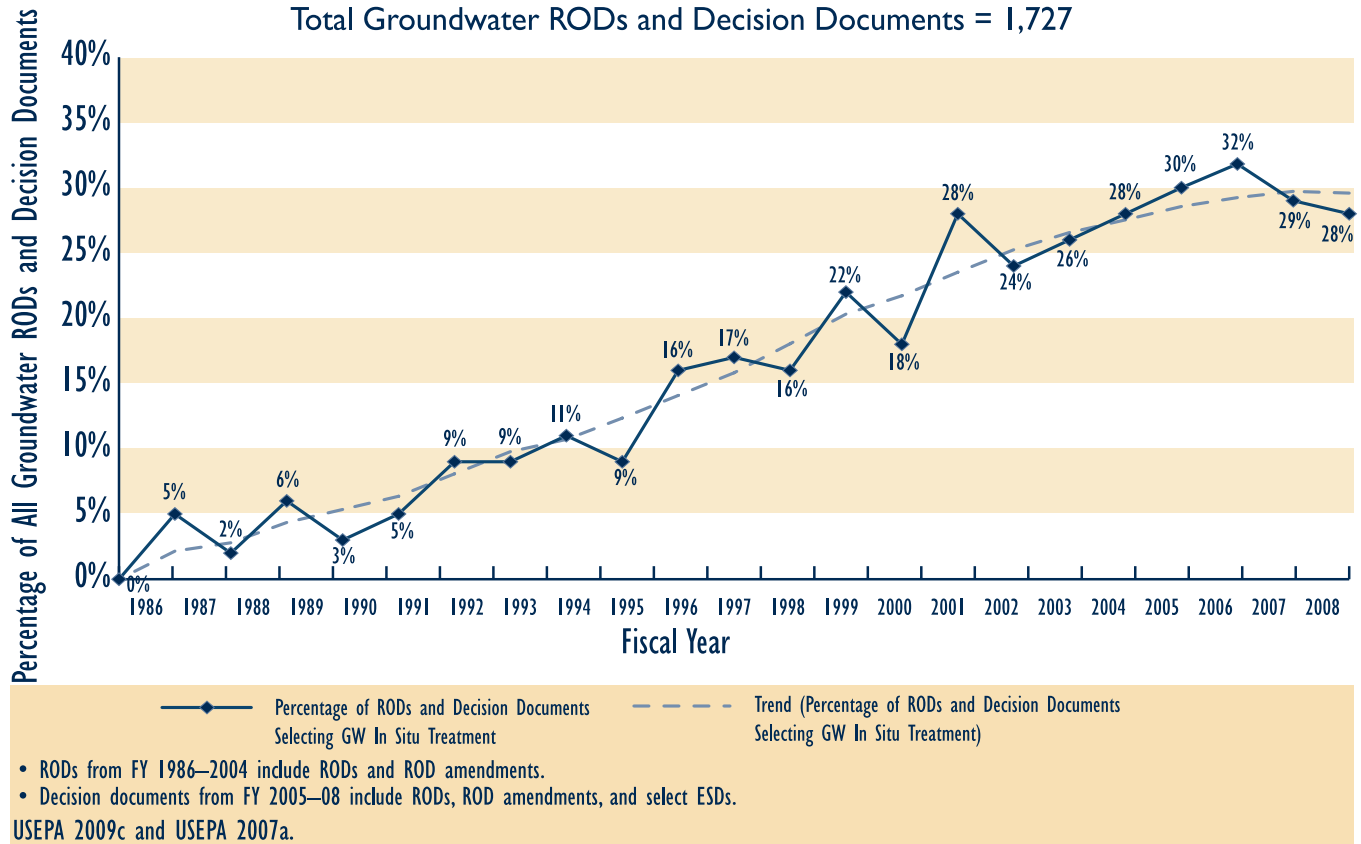
- The Superfund remedial program continues to select treatment as a primary component of decision documents that involve source control, groundwater, or both.
- The Superfund remedial program continues to address complex sites involving multiple media.

EPA's analysis of decision document data from FY 2005–08 indicates the following with regard to source control remedies:

- The Superfund remedial program continues to select treatment for a large number of source control remedies.
- Selected source control remedies include a combination of remedy components to address the complex problems that sites present.
- Solidification/stabilization continues to be the most frequently selected *ex situ* treatment technology, while the selection of incineration

Figure 9: Trends in Groundwater RODs and Decision Documents Selecting In Situ Treatment (FY 1986–2008)

Total Groundwater RODs and Decision Documents = 1,727



has decreased significantly and the selection of physical separation and recycling has increased.

- SVE, solidification/stabilization, multi-phase extraction, and *in situ* thermal treatment were the most frequently selected *in situ* treatment technologies.
- On average, half of the source treatment decision documents included an *in situ* treatment component.
- The increase in the Source Other remedy components is mainly attributable to ICs. The Superfund remedial program is more widely using ICs as a component of source control remedial actions to enhance their effectiveness and protectiveness. Increased knowledge and improved state programs facilitate using ICs as components of remedial actions.

EPA's analysis of decision document data from FY 2005–08 indicates the following with regard to groundwater remedies:

- The selection of P&T has leveled off, while the selection of *in situ* treatment, MNA, and ICs has increased.
- The types of other non-treatment remedy components selected for groundwater changed with an increase in ICs, a decrease in engineering control and water supply remedies, and continued selection of monitoring. The Superfund remedial program is more widely using ICs as a component of groundwater remedial actions to enhance their effectiveness and protectiveness. Increased knowledge and improved state programs facilitate using ICs as components of remedial actions.
- There was an increase in selection of bioremediation and chemical treatment technologies for *in situ* groundwater treatment.

High-Resolution Site Characterization

Fort Lewis Logistics Center Superfund Site, Washington

High-resolution site characterization was employed during the design phase to better delineate treatment isolation areas in the subsurface at this site. The investigation used multiple innovative field sampling methods including push probe groundwater sampling with an on-site laboratory; roto sonic drilling with sheen, dye, and ultraviolet (UV) fluorescence test to determine NAPL presence; electromagnetic geophysical techniques to find buried drums; and installation of multi-port wells for vertical groundwater profiling. The sampling and analysis program was designed to increase data density and limit decision uncertainty using systematic planning, dynamic work plans and field-based measurement technologies for real-time decision-making. The result was the development of a detailed and more accurate conceptual site model to more effectively design and implement the site remedy. If the design of the primary remedial technology, electrical resistivity heating, had been based on the remedial investigation alone, the system would have been oversized.

USEPA 2005.

- The selection of *in situ* treatment for groundwater continued its overall upward trend but appears to be leveling off at about 30% of groundwater treatment remedies.

VII. Observations, Highlights, and Further Analysis

EPA has made observations that are suggested by the remedy selection data and provides project highlights related to the observations. In addition, where appropriate, opportunities for further analysis are identified.

In Situ Treatment Technologies

The increase in selection of *in situ* technologies may be attributable to better characterization techniques and improvements in the application of specific *in situ* technologies. The high selection rate of *in situ* technologies supports the need for ongoing research into the application of *in situ* processes to continue to improve their effectiveness. These *in situ* remedies can reduce potential risks and costs from materials handling and can be more cost effective than *ex situ* technologies. The high rate of selection of *in situ* technologies also supports the need for high-resolution site characterization, which can better define source areas where an *in situ* treatment technology should be applied and which can measure treatment effectiveness. High-resolution site characterization techniques can provide a vertical and horizontal contaminant profile of the

subsurface that can then be integrated with existing maps and depicted in three dimensions, as well as over time. This information can then be used to support selection, design, and implementation of *in situ* treatment technologies that directly address source areas. The highlight above describes how high-resolution site characterization was used at a site.

In Situ Bioremediation Project

Iceland Coin Laundry Superfund Site, New Jersey

In situ bioremediation technologies were used to remediate the groundwater plume that contained perchloroethene (PCE) at levels above 10 parts per million (ppm). Geology at the site consists of unconsolidated sands, silts and clays underlain by sands that are highly permeable and low in organic matter and calcium carbonates. The core of the groundwater plume migrated vertically downward and horizontally. Bioremediation was selected to remediate the plume to maximum contaminant levels (MCLs) and involved injection of emulsified vegetable oil substrate, injection of sodium bicarbonate solution to adjust the pH of the groundwater, and bioaugmentation, which involved injecting *Dehalococcoides* sp. (DHC) bacteria to seed the groundwater. Preliminary geochemical/chemical analyses indicate that reductive dechlorination occurred as expected.

USEPA 2007b.

In Situ Bioremediation

In situ bioremediation is a specific *in situ* treatment technology the selection of which may be related to improvements in the application of *in situ* methods and site characterization techniques. The project highlight below shows how *in situ* bioremediation was successfully applied.

Further analysis opportunities include (1) comparing the use of bioremediation in the past with the current use of bioremediation to identify lessons learned and areas that may need further research, and (2) examining how EPA's efforts to improve site characterization have enabled more effective evaluation of *in situ* treatment in general and bioremediation technologies specifically and to identify what other characterization improvements might further assist in improving the evaluation, selection, and design of bioremediation technologies.

Groundwater P&T

The decrease in the selection of P&T alone for groundwater may correspond to an increase in source treatment as a replacement for or enhancement to P&T. Despite the decrease in the selection of P&T, it continues to play a substantial role in groundwater remediation.

Further analysis is being conducted to determine if the frequency of P&T use is being inflated because of the way in which information is extracted from decision documents and entered into CERCLIS.

Further analysis may be warranted to assess whether lessons learned from EPA's remedial system evaluations and P&T optimization efforts are being applied when P&T remedies are selected at new sites. Specifically, it may be beneficial to evaluate whether EPA is incorporating optimization elements and value engineering into selected P&T remedies to ensure they are designed with the most current innovations.

Recycling and Green Remediation

Selection of recycling technologies for sources increased significantly (see page 9 of this report). This may be a result of more accurate data entry or it may be attributable to a move toward greener remedies. Recycling is a technology that is consistent with EPA's green remediation initiative. The highlight below provides information about a project that selected a technology to reduce the carbon footprint of the remedial action, consistent with green remediation principles.

Further analysis could be conducted to show the degree to which green remediation concepts are being considered during remedy selection and implementation. This information would help guide efforts to promote green remediation principles.

Other Remedy Components

The increase in the "other" remedy component may be a result of an emphasis on selecting ICs to enhance the effectiveness and protectiveness of

VOC Recovery from an Air Stripper and SVE System:Applying Green Remediation Concepts

State Road 114 Groundwater Plume Superfund Site, Hockley County, Texas

An innovative technology will be implemented at this site that will help reduce the project's carbon footprint. The Ogallala Aquifer, which is the only source of high-quality drinking water in the area, is contaminated with 1,2-dichloroethane (DCA) and benzene. In order to treat the groundwater plume, an air stripper and soil vapor extraction (SVE) system will be used to remove the VOCs, and chemical precipitation will be used to remove the dissolved metals. A cryogenic compression and condensation (C3) system will be employed to collect and condense the vapor from the air stripper and SVE system which will then be recovered for potential recycling and resale. The C3 technology will reduce the carbon footprint for the site cleanup by eliminating air emissions from the treatment plant and allowing for an accelerated cleanup using the SVE system.

USEPA 2009a and USEPA 2009b.

source control and groundwater remedial actions. The high prevalence of monitoring at the majority of groundwater sites supports EPA's efforts to optimize long-term monitoring.

VIII. Sources and Electronic Versions

This section lists the sources of information used in this report and provides information on how to access the electronic version of this report and previous versions of ASR.

Sources

1. USEPA 2009a. Superfund Preliminary Close Out Report, State Road 114 Ground Water Plume Superfund Site, Levelland, Hockley County, Texas. September 1, 2009. Superfund Document Management System (SDMS) docid # 872955.
2. USEPA 2009b. State Road 114 Superfund Summary Fact Sheet. Updated August 3, 2009. www.epa.gov/earth1r6/6sf/pdf-files/0605177.pdf.
3. USEPA 2009c. Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS). <http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm>. This report uses CERCLIS data as of July 31, 2009. The CERCLIS data includes all RODs, ROD amendments, and ESDs with a remedy component issued by EPA in FY 2005–08 and information from review of individual decision documents from FY 2005–08 as necessary to clarify the CERCLIS information.
4. USEPA 2007a. Treatment Technologies for Site Cleanup: Annual Status Report (ASR) Twelfth Edition (EPA-542-R-07-012). EPA. Office of Solid Waste and Emergency Response (OSWER). September 2007.
5. USEPA 2007b. Superfund Preliminary Close Out Report, Iceland Coin Laundry Superfund Site, Vineland, New Jersey. September 27, 2007. SDMS docid # 134691.
6. USEPA 2005. Expedited Site Characterization of Mixed Chlorinated Solvents and Petroleum Dense Non-Aqueous Phase Liquid (DNAPL) Using Multiple Investigative Techniques in Conjunction with Mobile and Fixed Labs at Fort Lewis Logistics Center, Fort Lewis, WA. www.triadcentral.org/user/includes/dsp_profile.cfm?Project_ID=13. May 2005.

Electronic Versions

SRR 13th edition is available electronically at www.clu-in.org/asr. The body of the report and its appendices can be downloaded from the Web site. The list below describes the appendices for this SRR.

Appendix A. Treatment Technologies by Fiscal Year. This appendix lists the *ex situ* and *in situ* source treatment technologies and the groundwater *in situ* treatment technologies and groundwater pump and treat remedies by fiscal year from 1982–2008.

Appendix B. Definitions of Specific Treatment Technologies. This appendix defines the specific treatment technologies selected as part of remedial actions.

Appendix C. Source Treatment Technologies Selected in Decision Documents from FY 2005–08, Organized by Technology (Only available electronically). This appendix lists the source treatment technologies selected from FY 2005–08 and sites/operable units with which these technologies are associated.

Appendix D. Source Treatment Technologies Selected in Decision Documents from FY 2005–08, Organized by Location (Only available electronically). This appendix lists the source treatment technologies selected from FY 2005–08 and sites/operable units with which these technologies are associated.

Appendix E. Groundwater Remedies Selected in Decision Documents from FY 2005–08, Organized by Technology (Only available electronically). This appendix lists the groundwater technologies selected in decision documents from

FY 2005–08 and the sites/operable units with which these technologies are associated.

Appendix F. Groundwater Remedies Selected in Decision Documents from FY 2005–08, Organized by Location (Only available electronically). This appendix lists the groundwater technologies selected in decision documents from FY 2005–08 and the sites/operable units with which these technologies are associated.

Appendix G. Remedy Selection Summary Matrix FY 2005–08 (Only available electronically). This appendix lists the remedy components selected in each decision document analyzed for the SRR.

Appendix H. Identification of Remedy and Record of Decision Types for Superfund Remedial Actions (Only available electronically). This appendix provides the remedy definitions used to identify the types of remedy components selected in decision documents and subsequently entered into CERCLIS.

In addition, electronic versions of previous ASR reports can be downloaded from www.clu-in.org/asr.

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Appendix A

Treatment Technologies by Fiscal Year

Appendix A: Treatment Technologies by Fiscal Year*

Ex Situ Source Control Technologies	82-85	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Total
Bioremediation	1	1	0	3	5	2	1	8	3	4	6	6	0	5	6	1	0	1	1	6	1	0	3	0	64
Chemical Treatment	1	0	1	0	0	0	1	1	0	0	1	1	0	0	1	0	1	0	0	1	2	0	0	0	11
Incineration (on-site)	4	3	4	6	6	4	3	3	1	1	2	1	4	0	0	0	0	0	0	0	0	0	0	0	42
Incineration (off-site)	3	2	3	9	9	15	13	6	8	5	9	5	4	3	2	5	1	2	0	1	1	3	1	1	111
Mechanical Soil Aeration	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	4
Neutralization	0	0	0	1	0	0	0	3	0	0	2	0	0	0	0	0	0	1	0	0	1	1	0	0	9
Open Burn/Open Detonation	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	1	0	0	0	5
Physical Separation (including recycling)	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	9	3	2	1	0	12	12	5	9	57
Phytoremediation	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Soil Vapor Extraction	0	0	0	0	0	0	0	0	2	1	0	2	0	1	1	0	0	0	0	0	1	0	1	0	9
Soil Washing	0	0	0	0	1	2	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	6
Solidification/Stabilization	3	4	6	7	8	14	20	23	13	13	3	7	4	13	8	5	2	6	1	10	8	10	6	9	203
Solvent Extraction	0	0	0	0	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Thermal Desorption	2	1	4	4	3	6	8	2	4	4	5	1	5	4	2	4	3	6	1	1	1	0	0	0	71
Vitrification	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	14	11	19	31	33	45	47	47	33	29	29	24	18	28	23	24	10	21	4	19	28	26	16	19	598
In Situ Source Control Technologies	82-85	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Total
Bioremediation	0	0	1	2	1	3	1	4	4	5	4	6	0	6	4	4	3	2	1	2	3	6	2	1	65
Chemical Treatment	1	0	0	0	0	0	1	0	0	0	0	0	0	1	3	1	2	5	0	1	3	3	2	1	24
Electrical Separation	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Flushing	1	1	0	0	3	1	1	1	1	4	0	0	0	0	1	1	1	0	0	1	0	0	0	2	19
Mechanical Soil Aeration	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
Multi-Phase Extraction	0	1	0	0	0	0	3	4	1	4	0	2	5	3	3	4	2	6	1	3	3	1	5	3	54
Neutralization	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0	2	1	1	0	0	0	0	0	0	8
Phytoremediation	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	1	1	0	1	0	2	0	0	8
Soil Vapor Extraction	4	2	1	8	21	18	34	19	14	8	11	22	16	12	16	8	7	6	11	6	7	7	8	10	276
Solidification/Stabilization	0	1	3	2	4	2	1	3	5	0	2	4	2	3	3	1	0	3	2	0	2	6	2	5	56
Thermal Treatment	0	0	0	0	0	1	1	0	0	1	0	2	1	1	1	1	0	0	0	1	5	3	2	2	22
Vitrification	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
Total	7	5	5	12	29	25	43	32	25	23	17	37	24	29	33	23	17	25	15	15	23	28	21	24	537
In Situ Groundwater Technologies	82-85	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Total
Air Sparging	0	1	0	0	1	1	8	3	2	0	4	8	6	10	7	8	4	4	1	2	5	2	1	2	80
Bioremediation	0	0	0	0	4	3	2	2	3	2	2	1	2	3	1	3	12	5	5	5	13	20	17	12	117
Chemical Treatment	0	0	0	0	0	0	0	1	1	0	0	1	1	1	0	3	5	6	1	7	9	11	14	4	70
Flushing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
In-Well Air Stripping	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	2	1	0	1	0	0	0	0	8
Multi-Phase Extraction	0	1	0	0	0	0	1	2	0	2	1	1	5	2	1	2	0	3	0	3	1	0	0	0	25
Permeable Reactive Barrier	0	0	0	0	0	0	0	1	0	1	1	1	2	2	2	4	3	1	1	4	3	3	1	1	31
Phytoremediation	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	2	1	0	1	4	0	2	1	0	17
Total	0	2	0	0	5	4	11	9	6	5	9	12	18	19	18	26	28	19	10	26	31	38	34	19	349
Ex Situ Groundwater Technologies	82-85	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Total
Pump and Treat	11	16	7	26	36	26	48	59	56	70	47	48	64	51	43	41	19	23	11	13	22	20	23	18	798

* Data for FY 1982–2004 are project-level data; data from FY 2005–08 are decision document-level data.

Appendix B: Definitions of Specific Treatment Technologies

This appendix provides definitions of 18 types of source control (primarily soil) treatment technologies, 10 types of in situ groundwater treatment technologies, 8 types of groundwater P&T technologies, and 3 containment technologies. Technologies that are applicable to both source control and groundwater treatment are described only once under the source control treatment section. For P&T technologies, the descriptions focus on the treatment portion of the technology. Groundwater pumping technologies are not addressed in this report. Definitions are based on the Remediation Technologies Screening Matrix and Reference Guide, Version 4.0, which can be viewed at the Federal Remediation Technologies Roundtable (FRTR) website at www.frtr.gov, except as noted.

Source Control Treatment Technologies

BIOREMEDIATION uses microorganisms to degrade organic contaminants in soil, sludge, solids, and groundwater either *in situ* or *ex situ*. It can also be used to make metals or metalloids less toxic or mobile. When treating organic contaminants, the microorganisms break down contaminants by using them as a food source or cometabolizing them with a food source. Aerobic processes require an oxygen source, and the end-products typically are carbon dioxide and water. Anaerobic processes are conducted in the absence of oxygen, and the end-products can include methane, hydrogen gas, sulfide, elemental sulfur, and dinitrogen gas. *Ex situ* bioremediation technologies for groundwater typically involve treating extracted groundwater in a bioreactor or constructed wetland. *In situ* techniques stimulate and create a favorable environment for microorganisms to grow and use contaminants as a food and energy source, or to cometabolize them. Generally, this process involves providing some combination of oxygen, nutrients, and moisture, and controlling the temperature and pH. Microorganisms that have been adapted for degradation of specific contaminants are sometimes applied to enhance the process. For the treatment of metals and metalloids, it involves biological activity that promotes the formation of less toxic

or mobile species, by either creating ambient conditions that will cause such species to form, or changing the chemical form of the contaminant directly. The treatment may result in oxidation, reduction, precipitation, coprecipitation, or another transformation of the contaminant.

CHEMICAL TREATMENT, also known as chemical reduction/oxidation, typically involves reduction/oxidation (redox) reactions that chemically convert hazardous contaminants to compounds that are nonhazardous, less toxic, more stable, less mobile, or inert. Redox reactions involve the transfer of electrons from one compound to another. Specifically, one reactant is oxidized (loses electrons) and one is reduced (gains electrons). The oxidizing agents used for treatment of hazardous contaminants in soil include ozone, hydrogen peroxide, hypochlorites, potassium permanganate, Fenton's reagent (hydrogen peroxide and iron), chlorine, and chlorine dioxide. This method may be applied *in situ* or *ex situ* to soils, sludges, sediments, and other solids, and may also be applied to groundwater *in situ* or *ex situ* (P&T). P&T chemical treatment may also include the use of ultraviolet (UV) light in a process known as UV oxidation.

ELECTROKINETICS is based on the theory that a low-density current will mobilize contaminants in the form of charged species. A current passed between electrodes is intended to cause aqueous media, ions, and particulates to move through the soil, waste, and water. Contaminants arriving at the electrodes can be removed by means of electroplating or electrodeposition, precipitation or coprecipitation, adsorption, complexing with ion exchange resins, or by the pumping of water (or other fluid) near the electrode.

For **FLUSHING**, a solution of water, surfactants, or cosolvents is applied to the soil or injected into the subsurface to treat contaminated soil or groundwater. When treating soil, the injection is often designed to raise the water table into the contaminated soil zone. Injected water and treatment agents are recovered together with flushed contaminants.

Both on-site and off-site **INCINERATION** use high temperatures (870 to 1,200 °C or 1,600 to 2,200 °F) to volatilize and combust (in the presence of oxygen) organics in hazardous wastes. Auxiliary fuels are often employed to initiate and sustain combustion. The destruction and removal efficiency (DRE) for properly operated incinerators exceeds the 99.99% requirement for hazardous waste and can be operated to meet the 99.9999% requirement for polychlorinated biphenyls (PCB) and dioxins. Off-gases and combustion residuals generally require treatment. On-site incineration typically uses a transportable unit; for off-site incineration, waste is transported to a central facility.

MECHANICAL SOIL AERATION agitates contaminated soil, using tilling or other means to volatilize contaminants.

MULTI-PHASE EXTRACTION uses a vacuum system to remove various combinations of contaminated groundwater, separate-phase petroleum product, and vapors from the subsurface. The system typically lowers the water table around the well, exposing more of the formation. Contaminants in the newly exposed vadose zone are then accessible to vapor extraction. Once above ground, the extracted vapors or liquid-phase organics and groundwater are separated and treated.

NANOREMEDIATION is a relatively new technology for environmental remediation. “Nanotechnology is the understanding and control of matter at dimensions between approximately 1 and 100 nanometers, where unique phenomena enable novel applications” (National Nanotechnology Initiative [NNI] 2008). Nanoparticles can be highly reactive due to their large surface area to volume ratio and the presence of a greater number of reactive sites. This allows for increased contact with contaminants, thereby resulting in rapid reduction of contaminant concentrations (*Nanotechnology for Site Remediation*, EPA OSWER, EPA-542-F-08-009, 2008).

NEUTRALIZATION is a chemical reaction between an acid and a base. The reaction involves acidic or

caustic wastes that are neutralized (pH is adjusted toward 7.0) using caustic or acid additives.

OPEN BURN (OB) and **OPEN DETONATION (OD)** operations are conducted to destroy excess, obsolete, or unserviceable (EOU) munitions and energetic materials. In OB operations, energetics or munitions are destroyed by self-sustained combustion, which is ignited by an external source, such as a flame, heat, or a detonation wave. In OD operations, explosives and munitions are destroyed by detonation, which generally is initiated by an energetic charge.

PHYSICAL SEPARATION processes use physical properties to separate contaminated and uncontaminated media, or separate different types of media. For example, different-sized sieves and screens can be used to separate contaminated soil from relatively uncontaminated debris. Another application of physical separation is the dewatering of sediments or sludge.

PHYTOREMEDIATION is a process that uses plants to remove, transfer, stabilize, or destroy contaminants in soil, sediment, or groundwater. The mechanisms of phytoremediation include enhanced rhizosphere biodegradation (takes place in soil or groundwater immediately surrounding plant roots), phytoextraction (also known as phytoaccumulation, the uptake of contaminants by plant roots and the translocation/accumulation of contaminants into plant shoots and leaves), phytodegradation (metabolism of contaminants within plant tissues), and phytostabilization (production of chemical compounds by plants to immobilize contaminants at the interface of roots and soil). Phytoremediation applies to all biological, chemical, and physical processes that are influenced by plants (including the rhizosphere) and that aid in the cleanup of contaminated substances. Phytoremediation may be applied *in situ* or *ex situ* to soils, sludges, sediments, other solids, or groundwater.

SOIL VAPOR EXTRACTION (SVE) is used to remediate unsaturated (vadose) zone soil. A vacuum is applied to the soil to induce the controlled flow of air and

remove volatile and some semivolatile organic contaminants from the soil. SVE usually is performed *in situ*; however, in some cases, it can be used as an *ex situ* technology.

For **SOIL WASHING**, contaminants sorbed onto fine soil particles are separated from bulk soil in a water-based system on the basis of particle size. The wash water may be augmented with a basic leaching agent, surfactant, or chelating agent, or by adjusting the pH to help remove contaminants. Soils and wash water are mixed *ex situ* in a tank or other treatment unit. The wash water and various soil fractions are usually separated using gravity settling.

SOLIDIFICATION/STABILIZATION (S/S) reduces the mobility of hazardous substances and contaminants in the environment through both physical and chemical means. The S/S process physically binds or encloses contaminants within a stabilized mass. S/S is performed both *ex situ* and *in situ*. *Ex situ* S/S requires excavation of the material to be treated, and the resultant material must be disposed. *In situ* S/S uses auger/caisson systems and injector head systems to add binders to the contaminated soil or waste without excavation, leaving the resultant material in place.

SOLVENT EXTRACTION uses an organic solvent as an extractant to separate contaminants from soil. The organic solvent is mixed with contaminated soil in an extraction unit. The extracted solution then is passed through a separator, where the contaminants and extractant are separated from the soil.

For **THERMAL DESORPTION**, wastes are heated so that organic contaminants and water volatilize. Typically, a carrier gas or vacuum system transports the volatilized water and organics to a gas treatment system, typically a thermal oxidation or recovery system. Based on the operating temperature of the desorber, thermal desorption processes can be categorized into two groups: high temperature thermal desorption (320 to 560 °C or 600 to 1000 °F) and low temperature thermal desorption (90 to 320 °C or 200 to 600 °F). Thermal desorption is an *ex situ* treatment process. *In situ* thermal

desorption processes are discussed below as *in situ* thermal treatment.

IN SITU THERMAL TREATMENT is a treatment process that uses heat to facilitate extraction through volatilization and other mechanisms or to destroy contaminants *in situ*. Volatilized contaminants are typically removed from the vadose zone using SVE. Specific types of *in situ* thermal treatment techniques include conductive heating, electrical resistive heating, radio frequency heating, hot air injection, hot water injection, and steam enhanced extraction.

VITRIFICATION uses an electric current to melt contaminated soil at elevated temperatures (1,600 to 2,000° C or 2,900 to 3,650 °F). Upon cooling, the vitrification product is a chemically stable, leach-resistant, glass and crystalline material similar to obsidian or basalt rock. The high temperature component of the process destroys or removes organic materials. Radionuclides and heavy metals are retained within the vitrified product. Vitrification may be conducted *in situ* or *ex situ*.

In Situ Groundwater Treatment Technologies

AIR SPARGING involves the injection of air or oxygen into a contaminated aquifer. Injected air traverses horizontally and vertically in channels through the soil column, creating an underground stripper that removes volatile and semivolatile organic contaminants by volatilization. The injected air helps to flush the contaminants into the unsaturated zone. SVE usually is implemented in conjunction with air sparging to remove the generated vapor-phase contamination from the vadose zone. Oxygen added to the contaminated groundwater and vadose-zone soils also can enhance biodegradation of contaminants below and above the water table.

BIOREMEDIATION - See Source Control Treatment Technologies.

CHEMICAL TREATMENT - See Source Control Treatment Technologies.

ELECTROKINETICS - See Source Control Treatment Technologies.

FLUSHING - See Source Control Treatment Technologies.

For **IN-WELL AIR STRIPPING**, air is injected into a double-screened well, causing the volatile organic compounds (VOC) in the contaminated groundwater to transfer from the dissolved phase to the vapor phase in air bubbles. As the air bubbles rise to the surface of the water, the vapors are drawn off and treated by a SVE system.

MULTI-PHASE EXTRACTION - See Source Control Treatment Technologies.

NANOREMEDIATION - See Source Control Treatment Technologies.

PERMEABLE REACTIVE BARRIERS (PRB), also known as passive treatment walls, are installed across the flow path of a contaminated groundwater plume, allowing the water portion of the plume to flow through the wall. These barriers allow the passage of water while prohibiting the movement of contaminants by employing treatment agents within the wall such as zero-valent metals (usually zero-valent iron), chelators, sorbents, compost, and microbes. The contaminants are either degraded or retained in a concentrated form by the barrier material, which may need to be replaced periodically.

PHYTOREMEDIATION - See Source Control Treatment Technologies.

Pump and Treat Technologies (Ex Situ Treatment)

In **ADSORPTION**, contaminants concentrate at the surface of a sorbent, thereby reducing their concentration in the bulk liquid phase. This technology is typically applied by passing extracted groundwater through a column containing granular adsorbent. The most common adsorbent is granulated activated carbon. Other natural and synthetic adsorbents include activated alumina, lignin adsorption, sorption clays, and synthetic resins.

AIR STRIPPING partitions volatile organics from extracted groundwater by increasing the surface area of the contaminated water exposed to air. Aeration methods include packed towers, diffused aeration, tray aeration, and spray aeration.

BIOREMEDIATION - See Source Control Treatment Technologies.

CHEMICAL TREATMENT - See Source Control Treatment Technologies.

FILTRATION is the physical process of mechanical separation based on particle size, whereby particles suspended in a fluid are separated by forcing the fluid through a porous medium. As fluid passes through the medium, the suspended particles are trapped on the surface of the medium and/or within the body of the medium.

ION EXCHANGE removes ions from the aqueous phase by the exchange of cations or anions between the contaminants and the exchange medium. Ion exchange materials may consist of resins made from synthetic organic materials that contain ionic functional groups to which exchangeable ions are attached.

MEMBRANE FILTRATION separates contaminants from water by passing it through a semipermeable barrier or membrane. The membrane allows water and other low molecular weight chemicals to pass, while blocking contaminants with a higher molecular weight. Membrane filtration processes include microfiltration, ultrafiltration, nanofiltration, and reverse osmosis.

METALS PRECIPITATION transforms dissolved contaminants into an insoluble solid, facilitating the contaminant's subsequent removal from the liquid phase by sedimentation or filtration. The process usually uses pH adjustment, addition of a chemical precipitant, and flocculation.

Monitored Natural Attenuation (MNA) for Groundwater

GROUNDWATER MNA is the reliance on natural attenuation processes (within the context of a carefully controlled and monitored approach to site cleanup) to achieve site-specific remediation objectives within a time frame that is reasonable, compared with that offered by other, more active methods. The “natural attenuation processes” include a variety of physical, chemical, or biological processes that, under favorable conditions, act without human intervention to reduce the mass, toxicity, mobility, volume, or concentration of contaminants in soil or groundwater. These *in situ* processes include biodegradation; dispersion; dilution; sorption; volatilization; radioactive decay; and chemical or biological stabilization, transformation, or destruction of contaminants. Guidance on MNA is available from the document *Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites* (OSWER Directive 9200.4-17P, EPA, April 21, 1999).

Monitored Natural Recovery (MNR) for Sediments

SEDIMENT MNR relies on a wide range of naturally occurring processes to reduce risk from contaminated sediments to human and/or ecological receptors. These processes may include physical, biological, and chemical mechanisms that act together to reduce the risk posed by the contaminants. The key difference between MNA for groundwater and MNR for sediment is in the type of processes most often being relied upon to reduce risk. Transformation of contaminants is usually the major attenuating process for contaminated

groundwater; however, these processes are frequently too slow for the persistent contaminants of concern (COCs) in sediment to provide for remediation in a reasonable time frame. Therefore, isolation and mixing of contaminants through natural sedimentation is the process most frequently relied upon for contaminated sediment (*Contaminated Sediment Remediation Guidance for Hazardous Waste Sites*, EPA OSWER, EPA-540-R-05-012, 2005).

Containment Technologies

COVER SYSTEMS, also known as caps or covers, are surface barriers composed of one or more layers of impermeable material designed to contain contaminated source material. Cover systems can be used to prevent direct contact with the source material or minimize leachate creation by preventing surface water infiltration into the contained source material.

A **BOTTOM LINER** is a subsurface impermeable barrier designed to prevent the spread of leachate from contaminated source material. They are often used in conjunction with cover systems in the containment of source material.

VERTICAL ENGINEERED BARRIERS (VEB) are subsurface barriers made of an impermeable material designed to contain or divert groundwater. VEBs can be used to contain contaminated groundwater, divert uncontaminated groundwater from a contaminated area, or divert contaminated groundwater from a drinking water intake or other protected resource. VEBs can also be used for the containment of source material.

**Appendices C, D, E, F, G, and H
Available Electronically**

**Appendix C. Source Treatment
Technologies Selected in Decision
Documents from FY 2005–08,
Organized by Technology**

**Appendix D. Source Treatment
Technologies Selected in Decision
Documents from FY 2005–08,
Organized by Location**

**Appendix E. Groundwater Remedies
Selected in Decision Documents
from FY 2005–08, Organized by
Technology**

**Appendix F: Groundwater Remedies
Selected in Decision Documents
from FY 2005–08, Organized by
Location**

**Appendix G. Remedy Selection
Summary Matrix FY 2005–08**

**Appendix H. Identification of Remedy
and Record of Decision Types for
Superfund Remedial Actions**

These appendices do not appear in the printed version of the *Superfund Remedy Report 13th Edition*.
The appendices are available in the online version of this report at www.clu-in.org/asr



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Appendix C: Source Treatment Technologies Selected in Decision Documents from FY 2005-08, Organized by Technology

Additional information regarding these sites, including site progress profiles, can be obtained by searching the Superfund Information System website at <http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm>. Additional information regarding treatment technologies is available from the EPA CLU-IN website at www.clu-in.org.

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Ex Situ						
Air Sparging						
2005	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	03	ESD	10	ID	ID4890008952
2005	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	11	ESD	10	ID	ID4890008952
Biopile						
2007	NEPERA CHEMICAL CO., INC.	01	ROD	02	NY	NYD000511451
Chemical Treatment						
2005	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	03	ESD	10	ID	ID4890008952
2005	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	11	ESD	10	ID	ID4890008952
Composting						
2007	SHARON STEEL CORP (FARRELL WORKS DISPOSAL AREA)	01	ROD	03	PA	PAD001933175
2005	WEST VIRGINIA ORDANCE (USARMY)	02	ESD	03	WV	WVD980713036
2007	MILAN ARMY AMMUNITION PLANT	05	ESD	04	TN	TN0210020582
Evaporation						
2008	BELL LANDFILL	01	ESD	03	PA	PAD980705107
Free Product Recovery						
2005	KOPPERS CO., INC. (NEWPORT PLANT)	01	ROD	03	DE	DED980552244
2006	FOOTE MINERAL CO.	01	ROD	03	PA	PAD077087989
2006	GARLAND CREOSOTING	01	ROD	06	TX	TXD007330053
2006	HART CREOSOTING COMPANY	01	ROD	06	TX	TXD050299577
2006	JASPER CREOSOTING COMPANY INC.	01	ROD	06	TX	TXD008096240
Incineration (Off Site)						
2005	BOG CREEK FARM	01	ESD	02	NJ	NJD063157150
2006	SOLVENT SAVERS	01	ROD-A	02	NY	NYD980421176
2008	STANDARD CHLORINE OF DELAWARE, INC.	01	ESD	03	DE	DED041212473
2007	LENZ OIL SERVICE, INC.	01	ESD	05	IL	ILD005451711
2006	HART CREOSOTING COMPANY	01	ROD	06	TX	TXD050299577
2006	JASPER CREOSOTING COMPANY INC.	01	ROD	06	TX	TXD008096240
Leachate Treatment						
2007	ONONDAGA LAKE	08	ROD	02	NY	NYD986913580
2005	PETER COOPER	01	ROD	02	NY	NYD980530265
2006	MIDNITE MINE	01	ROD	10	WA	WAD980978753
Neutralization						
2005	CALIFORNIA GULCH	11	ROD	08	CO	COD980717938
2006	PURITY OIL SALES, INC.	02	ROD-A	09	CA	CAD980736151

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Ex Situ, continued						
Open Burn/Open Detonation						
2005	ANDERSEN AIR FORCE BASE	07	ROD	09	GU	GU6571999519
Physical Separation						
2005	W.R. GRACE & CO., INC. (ACTON PLANT)	03	ROD	01	MA	MAD001002252
2006	HITEMAN LEATHER	01	ROD	02	NY	NYD981560915
2005	LI TUNGSTEN CORP.	04	ROD	02	NY	NYD986882660
2008	MERCURY REFINING, INC.	01	ROD	02	NY	NYD048148175
2008	SENECA ARMY DEPOT	07	ROD	02	NY	NY0213820830
2006	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	34	ROD	03	MD	MD2210020036
2006	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	07	ROD	03	MD	MD3210021355
2007	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	08	ROD	03	MD	MD3210021355
2006	LETTERKENNY ARMY DEPOT (SE AREA)	02	ROD	03	PA	PA6213820503
2007	FORT EUSTIS (US ARMY)	02	ROD	03	VA	VA6210020321
2008	LANGLEY AIR FORCE BASE/NASA LANGLEY RESEARCH CENTER	34	ROD	03	VA	VA2800005033
2008	LANGLEY AIR FORCE BASE/NASA LANGLEY RESEARCH CENTER	51	ROD	03	VA	VA2800005033
2006	AMERICAN BRASS INC.	01	ROD	04	AL	ALD981868466
2006	UNITED METALS, INC.	01	ROD	04	FL	FLD098924038
2005	BREWER GOLD MINE	01	ROD	04	SC	SCD987577913
2005	KERR-MCGEE (KRESS CREEK/WEST BRANCH OF DUPAGE RIVER)	01	ROD	05	IL	ILD980823991
2006	BENNETT STONE QUARRY	01	ROD-A	05	IN	IND006418651
2006	ST. REGIS PAPER CO.	07	ROD	05	MN	MND057597940
2007	ALLIED CHEMICAL & IRONTON COKE	03	ROD	05	OH	OHD043730217
2008	NEASE CHEMICAL	03	ROD	05	OH	OHD980610018
2008	HUDSON REFINERY	01	ROD	06	OK	OKD082471988
2005	PALMER BARGE LINE	00	ROD	06	TX	TXD068104561
2005	ST. LOUIS AIRPORT/HAZELWOOD INTERIM STORAGE/FUTURA COATINGS CO.	01	ROD	07	MO	MOD980633176
2005	MILLTOWN RESERVOIR SEDIMENTS	02	ROD	08	MT	MTD980717565
2006	SILVER BOW CREEK/BUTTE AREA	08	ROD	08	MT	MTD980502777
2007	ALAMEDA NAVAL AIR STATION	09	ROD	09	CA	CA2170023236
2008	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	ROD	09	CA	CA2890090002
2008	OMEGA CHEMICAL CORPORATION	01	ROD	09	CA	CAD042245001
2005	ANDERSEN AIR FORCE BASE	07	ROD	09	GU	GU6571999519
Recycling						
2005	KEEFE ENVIRONMENTAL SERVICES (KES)	02	ESD	01	NH	NHD092059112
2005	KOPPERS CO., INC. (NEWPORT PLANT)	01	ROD	03	DE	DED980552244
2005	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	20	ROD	03	MD	MD2210020036
2007	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	08	ROD	03	MD	MD3210021355
2006	AVTEX FIBERS, INC.	10	ESD	03	VA	VAD070358684
2006	AMERICAN BRASS INC.	01	ROD	04	AL	ALD981868466
2006	UNITED METALS, INC.	01	ROD	04	FL	FLD098924038
2007	OUTBOARD MARINE CORP.	04	ROD	05	IL	ILD000802827

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Ex Situ, continued						
Recycling, continued						
2008	HUDSON REFINERY	01	ROD	06	OK	OKD082471988
2005	PALMER BARGE LINE	00	ROD	06	TX	TXD068104561
2006	CHEROKEE COUNTY	03	ROD-A	07	KS	KSD980741862
2006	CHEROKEE COUNTY	04	ROD-A	07	KS	KSD980741862
2008	ROCKY MOUNTAIN ARSENAL (USARMY) - Off-Site Waste Disposal	03	ESD	08	CO	CO5210020769
2005	ANDERSEN AIR FORCE BASE	07	ROD	09	GU	GU6571999519
2005	UMATILLA ARMY DEPOT (LAGOONS)	09	ROD	10	OR	OR6213820917
Soil Vapor Extraction						
2005	DURHAM MEADOWS	01	ROD	01	CT	CTD001452093
2007	NEPERA CHEMICAL CO., INC.	01	ROD	02	NY	NYD000511451
Solidification/Stabilization						
2005	HATHEWAY & PATTERSON	01	ROD	01	MA	MAD001060805
2007	NEW HAMPSHIRE PLATING CO.	01	ESD	01	NH	NHD001091453
2005	PICATINNY ARSENAL (USARMY)	04	ROD	02	NJ	NJ3210020704
2006	HITEMAN LEATHER	01	ROD	02	NY	NYD981560915
2006	SENECA ARMY DEPOT	04	ROD	02	NY	NY0213820830
2008	SENECA ARMY DEPOT	07	ROD	02	NY	NY0213820830
2006	SOLVENT SAVERS	01	ROD-A	02	NY	NYD980421176
2005	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	20	ROD	03	MD	MD2210020036
2007	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	08	ROD	03	MD	MD3210021355
2006	PATUXENT RIVER NAVAL AIR STATION	16	ROD	03	MD	MD7170024536
2005	PATUXENT RIVER NAVAL AIR STATION	30	ROD	03	MD	MD7170024536
2008	OCCIDENTAL CHEMICAL CORP./FIRESTONE TIRE & RUBBER CO.	01	ESD	03	PA	PAD980229298
2008	ANNISTON ARMY DEPOT (SOUTHEAST INDUSTRIAL AREA)	02	ROD	04	AL	AL3210020027
2007	USARMY/NASA REDSTONE ARSENAL	06	ROD	04	AL	AL7210020742
2006	ESCAMBIA WOOD - PENSACOLA	01	ROD	04	FL	FLD008168346
2006	STAUFFER CHEMICAL CO (TAMPA)	01	ROD-A	04	FL	FLD004092532
2006	UNITED METALS, INC.	01	ROD	04	FL	FLD098924038
2008	USN AIR STATION CECIL FIELD	05	ROD	04	FL	FL5170022474
2006	SIGMON'S SEPTIC TANK SERVICE	01	ROD	04	NC	NCD062555792
2008	SMALLEY-PIPER	01	ROD	04	TN	TNN000407378
2007	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	07	ROD-A	05	MN	MN7213820908
2008	SOUTH MINNEAPOLIS RESIDENTIAL SOIL CONTAMINATION	00	ROD	05	MN	MNN000509136
2008	HUDSON REFINERY	01	ROD	06	OK	OKD082471988
2006	HART CREOSOTING COMPANY	01	ROD	06	TX	TXD050299577
2005	ANNAPOLIS LEAD MINE	01	ROD	07	MO	MO0000958611
2008	MADISON COUNTY MINES	03	ROD	07	MO	MOD098633415
2005	CALIFORNIA GULCH	11	ROD	08	CO	COD980717938
2006	DAVENPORT AND FLAGSTAFF SMELTERS	01	ESD	08	UT	UTD988075719
2007	CAMP PENDLETON MARINE CORPS BASE	04	ROD	09	CA	CA2170023533

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Ex Situ, continued						
Solidification/Stabilization, continued						
2008	CAMP PENDLETON MARINE CORPS BASE	05	ROD	09	CA	CA2170023533
2007	ANDERSEN AIR FORCE BASE	08	ROD	09	GU	GU6571999519
2005	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	03	ESD	10	ID	ID4890008952
2005	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	11	ESD	10	ID	ID4890008952
Surface Water Treatment						
2006	HITEMAN LEATHER	01	ROD	02	NY	NYD981560915
2006	RYELAND ROAD ARSENIC SITE	01	ROD	03	PA	PAD981033459
2007	REASOR CHEMICAL COMPANY	01	ROD-A	04	NC	NCD986187094
2005	SAVANNAH RIVER SITE (USDOE)	67	ROD	04	SC	SC1890008989
2007	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	07	ROD-A	05	MN	MN7213820908
2008	HUDSON REFINERY	01	ROD	06	OK	OKD082471988
2006	HART CREOSOTING COMPANY	01	ROD	06	TX	TXD050299577
2005	PESTER REFINERY CO.	01	ROD-A	07	KS	KSD000829846
2008	CAPTAIN JACK MILL	01	ROD	08	CO	COD981551427
2005	CENTRAL CITY, CLEAR CREEK	03	ESD	08	CO	COD980717557
2008	GILT EDGE MINE	01	ROD	08	SD	SDD987673985
Thermal Desorption						
2005	LOCKWOOD SOLVENT GROUND WATER PLUME	01	ROD	08	MT	MT0007623052
Unspecified Off Site Treatment						
2005	DOVER MUNICIPAL WELL 4	02	ROD	02	NJ	NJD980654131
2007	ROCKAWAY BOROUGH WELL FIELD	03	ROD	02	NJ	NJD980654115
2006	ROCKAWAY BOROUGH WELL FIELD	04	ROD	02	NJ	NJD980654115
2005	LITTLE VALLEY	02	ROD	02	NY	NY0001233634
2007	ONONDAGA LAKE	08	ROD	02	NY	NYD986913580
2006	AMERICAN BRASS INC.	01	ROD	04	AL	ALD981868466
2008	ANNISTON ARMY DEPOT (SOUTHEAST INDUSTRIAL AREA)	02	ROD	04	AL	AL3210020027
2008	PENSACOLA NAVAL AIR STATION	02	ROD	04	FL	FL9170024567
2008	USN AIR STATION CECIL FIELD	05	ROD	04	FL	FL5170022474
2008	TOOELE ARMY DEPOT (NORTH AREA)	09	ROD	08	UT	UT3213820894
2005	ONONDAGA LAKE	02	ROD	02	NY	NYD986913580
2005	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	03	ESD	10	ID	ID4890008952
Unspecified Thermal Treatment						
2006	HASTINGS GROUND WATER CONTAMINATION	12	ROD	07	NE	NED980862668

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
In Situ						
Bioremediation						
2006	BRIDGEPORT RENTAL & OIL SERVICES	02	ROD	02	NJ	NJD053292652
2006	ICELAND COIN LAUNDRY AREA GW PLUME	01	ROD	02	NJ	NJ0001360882
2006	FOOTE MINERAL CO.	01	ROD	03	PA	PAD077087989
2006	TOWER CHEMICAL CO.	03	ROD	04	FL	FLD004065546
2005	SAVANNAH RIVER SITE (USDOE)	24	ROD	04	SC	SCI890008989
2007	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	02	ROD	07	MO	MO3213890012
2007	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	03	ROD	07	MO	MO3213890012
2005	LOCKWOOD SOLVENT GROUND WATER PLUME	01	ROD	08	MT	MT0007623052
2006	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	01	ROD	08	UT	UT0001119296
Bioslurping						
2006	BRIDGEPORT RENTAL & OIL SERVICES	02	ROD	02	NJ	NJD053292652
Bioventing						
2006	TOWER CHEMICAL CO.	03	ROD	04	FL	FLD004065546
2008	STATE ROAD 114 GROUNDWATER PLUME	00	ROD	06	TX	TXSFN0605177
2005	CASTLE AIR FORCE BASE (6 AREAS)	04	ROD	09	CA	CA3570024551
2006	DEL AMO	02	ESD	09	CA	CAD029544731
Chemical Treatment						
2006	WEST KINGSTON TOWN DUMP/URI DISPOSAL AREA	01	ROD	01	RI	RID981063993
2005	DOVER MUNICIPAL WELL 4	02	ROD	02	NJ	NJD980654131
2007	PEACH ORCHARD RD PCE GROUNDWATER PLUME SITE	01	ROD	04	GA	GAN000407449
2008	MCGAFFEY AND MAIN GROUNDWATER PLUME	00	ROD	06	NM	NM0000605386
2006	PETRO-CHEMICAL SYSTEMS, INC. (TURTLE BAYOU)	02	ROD-A	06	TX	TXD980873350
2005	CHEMICAL COMMODITIES, INC.	01	ROD	07	KS	KSD031349624
2006	HASTINGS GROUND WATER CONTAMINATION	12	ROD	07	NE	NED980862668
2007	PARKVIEW WELL	02	ROD	07	NE	NEN000704456
2005	LOCKWOOD SOLVENT GROUND WATER PLUME	01	ROD	08	MT	MT0007623052
Flushing						
2008	HAVERTOWN PCP	03	ROD	03	PA	PAD002338010
2008	SMALLEY-PIPER	01	ROD	04	TN	TNN000407378
Fracturing						
2007	SAVANNAH RIVER SITE (USDOE)	19	ROD	04	SC	SCI890008989
In Situ Thermal Treatment						
2005	SOLVENTS RECOVERY SERVICE OF NEW ENGLAND	03	ROD	01	CT	CTD009717604
2007	GROVELAND WELLS	02	ESD	01	MA	MAD980732317
2008	SILRESIM CHEMICAL CORP.	01	ESD	01	MA	MAD000192393
2006	BRIDGEPORT RENTAL & OIL SERVICES	02	ROD	02	NJ	NJD053292652
2007	US NASA MARSHALL SPACE FLIGHT CENTER - Interim Source Area 13	03	ROD	04	AL	AL1800013863
2005	PADUCAH GASEOUS DIFFUSION PLANT (USDOE)	19	ROD	04	KY	KY8890008982
2005	SAVANNAH RIVER SITE (USDOE)	24	ROD	04	SC	SCI890008989

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
In Situ, continued						
In Situ Thermal Treatment, continued						
2005	CONTINENTAL STEEL CORP.	01	ESD	05	IN	IND001213503
2006	GRANTS CHLORINATED SOLVENTS	00	ROD	06	NM	NM0007271768
2006	FRONTIER FERTILIZER	01	ROD	09	CA	CAD071530380
2008	OMEGA CHEMICAL CORPORATION	01	ROD	09	CA	CAD042245001
2005	PEMACO MAYWOOD	01	ROD	09	CA	CAD980737092
Multi-Phase Extraction						
2006	NYANZA CHEMICAL WASTE DUMP	02	ESD	01	MA	MAD990685422
2005	TROY MILLS LANDFILL	01	ROD	01	NH	NHD980520217
2007	ONONDAGA LAKE	02	ESD	02	NY	NYD986913580
2007	BRESLUBE-PENN, INC.	01	ROD	03	PA	PAD089667695
2007	LENZ OIL SERVICE, INC.	01	ESD	05	IL	ILD005451711
2008	CAM-OR INC.	01	ROD	05	IN	IND005480462
2005	OUACHITA NEVADA WOOD TREATER	01	ROD	06	AR	ARD042755231
2008	HUDSON REFINERY	01	ROD	06	OK	OKD082471988
2007	OBEE ROAD	02	ROD	07	KS	KSD980631766
2007	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	02	ROD	07	MO	MO3213890012
2005	LOWRY LANDFILL	00	ROD-A	08	CO	COD980499248
2008	OMEGA CHEMICAL CORPORATION	01	ROD	09	CA	CAD042245001
Phytoremediation						
2006	BRIDGEPORT RENTAL & OIL SERVICES	02	ROD	02	NJ	NJD053292652
2006	RYELAND ROAD ARSENIC SITE	01	ROD	03	PA	PAD981033459
Soil Vapor Extraction						
2007	ROCKAWAY BOROUGH WELL FIELD	03	ROD	02	NJ	NJD980654115
2006	ROCKAWAY BOROUGH WELL FIELD	04	ROD	02	NJ	NJD980654115
2008	COMPUTER CIRCUITS	01	ROD	02	NY	NYD125499673
2006	LITTLE VALLEY	02	ROD-A	02	NY	NY0001233634
2008	MOHONK ROAD INDUSTRIAL PLANT	01	ROD-A	02	NY	NYD986950012
2006	SOLVENT SAVERS	01	ESD	02	NY	NYD980421176
2007	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	35	ROD	03	MD	MD2210020036
2005	MALVERN TCE	01	ROD-A	03	PA	PAD014353445
2005	PADUCAH GASEOUS DIFFUSION PLANT (USD OE)	19	ROD	04	KY	KY8890008982
2007	SAVANNAH RIVER SITE (USD OE)	19	ROD	04	SC	SCI890008989
2005	SAVANNAH RIVER SITE (USD OE)	24	ROD	04	SC	SCI890008989
2007	SAVANNAH RIVER SITE (USD OE)	28	ROD	04	SC	SCI890008989
2008	SAVANNAH RIVER SITE (USD OE)	31	ROD	04	SC	SCI890008989
2008	GRAND TRAVERSE OVERALL SUPPLY CO.	02	ROD	05	MI	MID017418559
2008	NORTH BRONSON INDUSTRIAL SUBAREAS	02	ROD	05	MI	MIN000508192
2007	SPARTAN CHEMICAL CO.	00	ROD	05	MI	MID079300125
2008	VERONA WELL FIELD	01	ESD	05	MI	MID980793806

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
In Situ, continued						
Soil Vapor Extraction, continued						
2006	GRANTS CHLORINATED SOLVENTS	00	ROD	06	NM	NM0007271768
2008	PANTEX PLANT (USDOE)	00	ROD	06	TX	TX4890110527
2008	STATE ROAD 114 GROUNDWATER PLUME	00	ROD	06	TX	TXSFN0605177
2005	10TH STREET SITE	02	ROD	07	NE	NED981713837
2005	LOCKWOOD SOLVENT GROUND WATER PLUME	01	ROD	08	MT	MT0007623052
2007	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	02	ROD	08	UT	UT0001119296
2007	ALAMEDA NAVAL AIR STATION	14	ROD	09	CA	CA2170023236
2006	BARSTOW MARINE CORPS LOGISTICS BASE	02	ROD	09	CA	CA8170024261
2005	CASTLE AIR FORCE BASE (6 AREAS)	04	ROD	09	CA	CA3570024551
2006	FRONTIER FERTILIZER	01	ROD	09	CA	CAD071530380
2007	MCCLELLAN AIR FORCE BASE (GROUND WATER CONTAMINATION)	01	ROD	09	CA	CA4570024337
2008	OMEGA CHEMICAL CORPORATION	01	ROD	09	CA	CAD042245001
2005	PEMACO MAYWOOD	01	ROD	09	CA	CAD980737092
2006	PURITY OIL SALES, INC.	02	ROD-A	09	CA	CAD980736151
2008	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	16	ROD	10	ID	ID4890008952
Solidification/Stabilization						
2006	BRIDGEPORT RENTAL & OIL SERVICES	02	ROD	02	NJ	NJD053292652
2006	HITEMAN LEATHER	01	ROD	02	NY	NYD981560915
2008	MERCURY REFINING, INC.	01	ROD	02	NY	NYD048148175
2007	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	08	ROD	03	MD	MD3210021355
2006	FOOTE MINERAL CO.	01	ROD	03	PA	PAD077087989
2006	RYELAND ROAD ARSENIC SITE	01	ROD	03	PA	PAD981033459
2008	RYELAND ROAD ARSENIC SITE	01	ESD	03	PA	PAD981033459
2008	ATLANTIC WOOD INDUSTRIES, INC.	03	ROD	03	VA	VAD990710410
2008	LANGLEY AIR FORCE BASE/NASA LANGLEY RESEARCH CENTER	34	ROD	03	VA	VA2800005033
2006	SAVANNAH RIVER SITE (USDOE)	96	ROD	04	SC	SC1890008989
2008	NORTH BRONSON INDUSTRIAL AREA	01	ESD	05	MI	MID005480900
2005	NEASE CHEMICAL	02	ROD	05	OH	OHD980610018
2005	PESTER REFINERY CO.	01	ROD-A	07	KS	KSD000829846
2007	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	02	ROD	07	MO	MO3213890012
2006	DAVENPORT AND FLAGSTAFF SMELTERS	01	ESD	08	UT	UTD988075719
Volatilization						
2007	F.E. WARREN AIR FORCE BASE	02	ROD-A	08	WY	WY5571924179

Appendix D: Source Treatment Technologies Selected in Decision Documents from FY 2005–08, Organized by Location

Additional information regarding these sites, including site progress profiles, can be obtained by searching the Superfund Information System website at <http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm>. Additional information regarding treatment technologies is available from the EPA CLU-IN website at www.clu-in.org.

EPA ID	Site Name	Operable Unit	Decision Document Type	FY	Technology Mode	Technology Type
Region 1						
Connecticut						
CTD001452093	DURHAM MEADOWS	01	ROD	2005	Ex Situ	Soil Vapor Extraction
CTD009717604	SOLVENTS RECOVERY SERVICE OF NEW ENGLAND	03	ROD	2005	In Situ	In Situ Thermal Treatment
Massachusetts						
MAD980732317	GROVELAND WELLS	02	ESD	2007	In Situ	In Situ Thermal Treatment
MAD001060805	HATHEWAY & PATTERSON	01	ROD	2005	Ex Situ	Solidification/Stabilization
MAD990685422	NYANZA CHEMICAL WASTE DUMP	02	ESD	2006	In Situ	Multi-Phase Extraction
MAD000192393	SILRESIM CHEMICAL CORP.	01	ESD	2008	In Situ	In Situ Thermal Treatment
MAD001002252	W.R. GRACE & CO., INC. (ACTON PLANT)	03	ROD	2005	Ex Situ	Physical Separation
New Hampshire						
NHD092059112	KEEFE ENVIRONMENTAL SERVICES (KES)	02	ESD	2005	Ex Situ	Recycling
NHD001091453	NEW HAMPSHIRE PLATING CO.	01	ESD	2007	Ex Situ	Solidification/Stabilization
NHD980520217	TROY MILLS LANDFILL	01	ROD	2005	In Situ	Multi-Phase Extraction
Rhode Island						
RID981063993	WEST KINGSTON TOWN DUMP/URI DISPOSAL AREA	01	ROD	2006	In Situ	Chemical Treatment
Region 2						
New Jersey						
NJD063157150	BOG CREEK FARM	01	ESD	2005	Ex Situ	Incineration (Off Site)
NJD053292652	BRIDGEPORT RENTAL & OIL SERVICES	02	ROD	2006	In Situ	Bioremediation
NJD053292652	BRIDGEPORT RENTAL & OIL SERVICES	02	ROD	2006	In Situ	Bioslurping
NJD053292652	BRIDGEPORT RENTAL & OIL SERVICES	02	ROD	2006	In Situ	In Situ Thermal Treatment
NJD053292652	BRIDGEPORT RENTAL & OIL SERVICES	02	ROD	2006	In Situ	Phytoremediation
NJD053292652	BRIDGEPORT RENTAL & OIL SERVICES	02	ROD	2006	In Situ	Solidification/Stabilization
NJD980654131	DOVER MUNICIPAL WELL 4	02	ROD	2005	In Situ	Chemical Treatment
NJD980654131	DOVER MUNICIPAL WELL 4	02	ROD	2005	Ex Situ	Unspecified Off Site Treatment
NJ0001360882	ICELAND COIN LAUNDRY AREA GW PLUME	01	ROD	2006	In Situ	Bioremediation
NJ3210020704	PICATINNY ARSENAL (USARMY)	04	ROD	2005	Ex Situ	Solidification/Stabilization
NJD980654115	ROCKAWAY BOROUGH WELL FIELD	03	ROD	2007	In Situ	Soil Vapor Extraction
NJD980654115	ROCKAWAY BOROUGH WELL FIELD	03	ROD	2007	Ex Situ	Unspecified Off Site Treatment
NJD980654115	ROCKAWAY BOROUGH WELL FIELD	04	ROD	2006	In Situ	Soil Vapor Extraction
NJD980654115	ROCKAWAY BOROUGH WELL FIELD	04	ROD	2006	Ex Situ	Unspecified Off Site Treatment

EPA ID	Site Name	Operable Unit	Decision Document Type	FY	Technology Mode	Technology Type
Region 2, continued						
New York						
NYD125499673	COMPUTER CIRCUITS	01	ROD	2008	In Situ	Soil Vapor Extraction
NYD981560915	HITEMAN LEATHER	01	ROD	2006	Ex Situ	Physical Separation
NYD981560915	HITEMAN LEATHER	01	ROD	2006	Ex Situ	Solidification/Stabilization
NYD981560915	HITEMAN LEATHER	01	ROD	2006	In Situ	Solidification/Stabilization
NYD981560915	HITEMAN LEATHER	01	ROD	2006	Ex Situ	Surface Water Treatment
NYD986882660	LI TUNGSTEN CORP.	04	ROD	2005	Ex Situ	Physical Separation
NY0001233634	LITTLE VALLEY	02	ROD-A	2006	In Situ	Soil Vapor Extraction
NY0001233634	LITTLE VALLEY	02	ROD	2005	Ex Situ	Unspecified Off Site Treatment
NYD048148175	MERCURY REFINING, INC.	01	ROD	2008	Ex Situ	Physical Separation
NYD048148175	MERCURY REFINING, INC.	01	ROD	2008	In Situ	Solidification/Stabilization
NYD986950012	MOHONK ROAD INDUSTRIAL PLANT	01	ROD-A	2008	In Situ	Soil Vapor Extraction
NYD000511451	NEPERA CHEMICAL CO., INC.	01	ROD	2007	Ex Situ	Biopile
NYD000511451	NEPERA CHEMICAL CO., INC.	01	ROD	2007	Ex Situ	Soil Vapor Extraction
NYD986913580	ONONDAGA LAKE	02	ESD	2007	In Situ	Multi-Phase Extraction
NYD986913580	ONONDAGA LAKE	02	ROD	2005	Ex Situ	Unspecified On Site Treatment
NYD986913580	ONONDAGA LAKE	08	ROD	2007	Ex Situ	Leachate Treatment
NYD986913580	ONONDAGA LAKE	08	ROD	2007	Ex Situ	Unspecified Off Site Treatment
NYD980530265	PETER COOPER	01	ROD	2005	Ex Situ	Leachate Treatment
NY0213820830	SENECA ARMY DEPOT	04	ROD	2006	Ex Situ	Solidification/Stabilization
NY0213820830	SENECA ARMY DEPOT	07	ROD	2008	Ex Situ	Physical Separation
NY0213820830	SENECA ARMY DEPOT	07	ROD	2008	Ex Situ	Solidification/Stabilization
NYD980421176	SOLVENT SAVERS	01	ROD-A	2006	Ex Situ	Incineration (Off Site)
NYD980421176	SOLVENT SAVERS	01	ESD	2006	In Situ	Soil Vapor Extraction
NYD980421176	SOLVENT SAVERS	01	ROD-A	2006	Ex Situ	Solidification/Stabilization
Region 3						
Delaware						
DED980552244	KOPPERS CO., INC. (NEWPORT PLANT)	01	ROD	2005	Ex Situ	Free Product Recovery
DED980552244	KOPPERS CO., INC. (NEWPORT PLANT)	01	ROD	2005	Ex Situ	Recycling
DED041212473	STANDARD CHLORINE OF DELAWARE, INC.	01	ESD	2008	Ex Situ	Incineration (Off Site)
Maryland						
MD2210020036	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	20	ROD	2005	Ex Situ	Recycling
MD2210020036	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	20	ROD	2005	Ex Situ	Solidification/Stabilization
MD2210020036	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	34	ROD	2006	Ex Situ	Physical Separation
MD2210020036	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	35	ROD	2007	In Situ	Soil Vapor Extraction
MD3210021355	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	07	ROD	2006	Ex Situ	Physical Separation

EPA ID	Site Name	Operable Unit	Decision Document Type	FY	Technology Mode	Technology Type
Region 3, continued						
Maryland, continued						
MD3210021355	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	08	ROD	2007	Ex Situ	Physical Separation
MD3210021355	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	08	ROD	2007	Ex Situ	Recycling
MD3210021355	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	08	ROD	2007	Ex Situ	Solidification/Stabilization
MD3210021355	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	08	ROD	2007	In Situ	Solidification/Stabilization
MD7170024536	PATUXENT RIVER NAVAL AIR STATION	16	ROD	2006	Ex Situ	Solidification/Stabilization
MD7170024536	PATUXENT RIVER NAVAL AIR STATION	30	ROD	2005	Ex Situ	Solidification/Stabilization
Pennsylvania						
PAD980705107	BELL LANDFILL	01	ESD	2008	Ex Situ	Evaporation
PAD089667695	BRESLUBE-PENN, INC.	01	ROD	2007	In Situ	Multi-Phase Extraction
PAD077087989	FOOTE MINERAL CO.	01	ROD	2006	In Situ	Bioremediation
PAD077087989	FOOTE MINERAL CO.	01	ROD	2006	Ex Situ	Free Product Recovery
PAD077087989	FOOTE MINERAL CO.	01	ROD	2006	In Situ	Solidification/Stabilization
PAD002338010	HAVERTOWN PCP	03	ROD	2008	In Situ	Flushing
PA6213820503	LETTERKENNY ARMY DEPOT (SE AREA)	02	ROD	2006	Ex Situ	Physical Separation
PAD014353445	MALVERN TCE	01	ROD-A	2005	In Situ	Soil Vapor Extraction
PAD980229298	OCCIDENTAL CHEMICAL CORP./FIRESTONE TIRE & RUBBER CO.	01	ESD	2008	Ex Situ	Solidification/Stabilization
PAD981033459	RYELAND ROAD ARSENIC SITE	01	ROD	2006	In Situ	Phytoremediation
PAD981033459	RYELAND ROAD ARSENIC SITE	01	ROD	2006	In Situ	Solidification/Stabilization
PAD981033459	RYELAND ROAD ARSENIC SITE	01	ESD	2008	In Situ	Solidification/Stabilization
PAD981033459	RYELAND ROAD ARSENIC SITE	01	ROD	2006	Ex Situ	Surface Water Treatment
PAD001933175	SHARON STEEL CORP (FARRELL WORKS DISPOSAL AREA)	01	ROD	2007	Ex Situ	Composting
Virginia						
VAD990710410	ATLANTIC WOOD INDUSTRIES, INC.	03	ROD	2008	In Situ	Solidification/Stabilization
VAD070358684	AVTEX FIBERS, INC.	10	ESD	2006	Ex Situ	Recycling
VA6210020321	FORT EUSTIS (US ARMY)	02	ROD	2007	Ex Situ	Physical Separation
VA2800005033	LANGLEY AIR FORCE BASE/NASA LANGLEY RESEARCH CENTER	34	ROD	2008	Ex Situ	Physical Separation
VA2800005033	LANGLEY AIR FORCE BASE/NASA LANGLEY RESEARCH CENTER	34	ROD	2008	In Situ	Solidification/Stabilization
VA2800005033	LANGLEY AIR FORCE BASE/NASA LANGLEY RESEARCH CENTER	51	ROD	2008	Ex Situ	Physical Separation
West Virginia						
WVD980713036	WEST VIRGINIA ORDNANCE (USARMY)	02	ESD	2005	Ex Situ	Composting
Region 4						
Alabama						
ALD981868466	AMERICAN BRASS INC.	01	ROD	2006	Ex Situ	Physical Separation
ALD981868466	AMERICAN BRASS INC.	01	ROD	2006	Ex Situ	Recycling
ALD981868466	AMERICAN BRASS INC.	01	ROD	2006	Ex Situ	Unspecified Off Site Treatment

EPA ID	Site Name	Operable Unit	Decision Document Type	FY	Technology Mode	Technology Type
Region 4, continued						
Alabama, continued						
AL3210020027	ANNISTON ARMY DEPOT (SOUTHEAST INDUSTRIAL AREA)	02	ROD	2008	Ex Situ	Solidification/Stabilization
AL3210020027	ANNISTON ARMY DEPOT (SOUTHEAST INDUSTRIAL AREA)	02	ROD	2008	Ex Situ	Unspecified Off Site Treatment
AL1800013863	US NASA MARSHALL SPACE FLIGHT CENTER - Interim Source Area 13	03	ROD	2007	In Situ	In Situ Thermal Treatment
AL7210020742	USARMY/NASA REDSTONE ARSENAL	06	ROD	2007	Ex Situ	Solidification/Stabilization
Florida						
FLD008168346	ESCAMBIA WOOD - PENSACOLA	01	ROD	2006	Ex Situ	Solidification/Stabilization
FL9170024567	PENSACOLA NAVAL AIR STATION	02	ROD	2008	Ex Situ	Unspecified Off Site Treatment
FLD004092532	STAUFFER CHEMICAL CO (TAMPA)	01	ROD-A	2006	Ex Situ	Solidification/Stabilization
FLD004065546	TOWER CHEMICAL CO.	03	ROD	2006	In Situ	Bioremediation
FLD004065546	TOWER CHEMICAL CO.	03	ROD	2006	In Situ	Bioventing
FLD098924038	UNITED METALS, INC.	01	ROD	2006	Ex Situ	Physical Separation
FLD098924038	UNITED METALS, INC.	01	ROD	2006	Ex Situ	Recycling
FLD098924038	UNITED METALS, INC.	01	ROD	2006	Ex Situ	Solidification/Stabilization
FL5170022474	USN AIR STATION CECIL FIELD	05	ROD	2008	Ex Situ	Solidification/Stabilization
FL5170022474	USN AIR STATION CECIL FIELD	05	ROD	2008	Ex Situ	Unspecified Off Site Treatment
Georgia						
GAN000407449	PEACH ORCHARD RD PCE GROUNDWATER PLUME SITE	01	ROD	2007	In Situ	Chemical Treatment
Kentucky						
KY8890008982	PADUCAH GASEOUS DIFFUSION PLANT (USDOE)	19	ROD	2005	In Situ	In Situ Thermal Treatment
KY8890008982	PADUCAH GASEOUS DIFFUSION PLANT (USDOE)	19	ROD	2005	In Situ	Soil Vapor Extraction
North Carolina						
NCD986187094	REASOR CHEMICAL COMPANY	01	ROD-A	2007	Ex Situ	Surface Water Treatment
NCD062555792	SIGMON'S SEPTIC TANK SERVICE	01	ROD	2006	Ex Situ	Solidification/Stabilization
South Carolina						
SCD987577913	BREWER GOLD MINE	01	ROD	2005	Ex Situ	Physical Separation
SCI890008989	SAVANNAH RIVER SITE (USDOE)	19	ROD	2007	In Situ	Fracturing
SCI890008989	SAVANNAH RIVER SITE (USDOE)	19	ROD	2007	In Situ	Soil Vapor Extraction
SCI890008989	SAVANNAH RIVER SITE (USDOE)	24	ROD	2005	In Situ	Bioremediation
SCI890008989	SAVANNAH RIVER SITE (USDOE)	24	ROD	2005	In Situ	In Situ Thermal Treatment
SCI890008989	SAVANNAH RIVER SITE (USDOE)	24	ROD	2005	In Situ	Soil Vapor Extraction
SCI890008989	SAVANNAH RIVER SITE (USDOE)	28	ROD	2007	In Situ	Soil Vapor Extraction
SCI890008989	SAVANNAH RIVER SITE (USDOE)	31	ROD	2008	In Situ	Soil Vapor Extraction
SCI890008989	SAVANNAH RIVER SITE (USDOE)	67	ROD	2005	Ex Situ	Surface Water Treatment
SCI890008989	SAVANNAH RIVER SITE (USDOE)	96	ROD	2006	In Situ	Solidification/Stabilization

EPA ID	Site Name	Operable Unit	Decision Document Type	FY	Technology Mode	Technology Type
Region 4, continued						
Tennessee						
TN0210020582	MILAN ARMY AMMUNITION PLANT	05	ESD	2007	Ex Situ	Composting
TNN000407378	SMALLEY-PIPER	01	ROD	2008	In Situ	Flushing
TNN000407378	SMALLEY-PIPER	01	ROD	2008	Ex Situ	Solidification/Stabilization
Region 5						
Illinois						
ILD980823991	KERR-MCGEE (KRESS CREEK/WEST BRANCH OF DUPAGE RIVER)	01	ROD	2005	Ex Situ	Physical Separation
ILD005451711	LENZ OIL SERVICE, INC.	01	ESD	2007	Ex Situ	Incineration (Off Site)
ILD005451711	LENZ OIL SERVICE, INC.	01	ESD	2007	In Situ	Multi-Phase Extraction
ILD000802827	OUTBOARD MARINE CORP.	04	ROD	2007	Ex Situ	Recycling
Indiana						
IND006418651	BENNETT STONE QUARRY	01	ROD-A	2006	Ex Situ	Physical Separation
IND005480462	CAM-OR INC.	01	ROD	2008	In Situ	Multi-Phase Extraction
IND001213503	CONTINENTAL STEEL CORP.	01	ESD	2005	In Situ	In Situ Thermal Treatment
Michigan						
MID017418559	GRAND TRAVERSE OVERALL SUPPLY CO.	02	ROD	2008	In Situ	Soil Vapor Extraction
MID005480900	NORTH BRONSON INDUSTRIAL AREA	01	ESD	2008	In Situ	Solidification/Stabilization
MIN000508192	NORTH BRONSON INDUSTRIAL SUBAREAS	02	ROD	2008	In Situ	Soil Vapor Extraction
MID079300125	SPARTAN CHEMICAL CO.	00	ROD	2007	In Situ	Soil Vapor Extraction
MID980793806	VERONA WELL FIELD	01	ESD	2008	In Situ	Soil Vapor Extraction
Minnesota						
MN7213820908	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	07	ROD-A	2007	Ex Situ	Solidification/Stabilization
MN7213820908	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	07	ROD-A	2007	Ex Situ	Surface Water Treatment
MNN000509136	SOUTH MINNEAPOLIS RESIDENTIAL SOIL CONTAMINATION	00	ROD	2008	Ex Situ	Solidification/Stabilization
MND057597940	ST. REGIS PAPER CO.	07	ROD	2006	Ex Situ	Physical Separation
Ohio						
OHD043730217	ALLIED CHEMICAL & IRONTON COKE	03	ROD	2007	Ex Situ	Physical Separation
OHD980610018	NEASE CHEMICAL	02	ROD	2005	In Situ	Solidification/Stabilization
OHD980610018	NEASE CHEMICAL	03	ROD	2008	Ex Situ	Physical Separation
Region 6						
Arkansas						
ARD042755231	OUACHITA NEVADA WOOD TREATER	01	ROD	2005	In Situ	Multi-Phase Extraction
New Mexico						
NM0007271768	GRANTS CHLORINATED SOLVENTS	00	ROD	2006	In Situ	In Situ Thermal Treatment
NM0007271768	GRANTS CHLORINATED SOLVENTS	00	ROD	2006	In Situ	Soil Vapor Extraction
NM0000605386	MCGAFFEY AND MAIN GROUNDWATER PLUME	00	ROD	2008	In Situ	Chemical Treatment

EPA ID	Site Name	Operable Unit	Decision Document Type	FY	Technology Mode	Technology Type
Region 6, continued						
Oklahoma						
OKD082471988	HUDSON REFINERY	01	ROD	2008	In Situ	Multi-Phase Extraction
OKD082471988	HUDSON REFINERY	01	ROD	2008	Ex Situ	Physical Separation
OKD082471988	HUDSON REFINERY	01	ROD	2008	Ex Situ	Recycling
OKD082471988	HUDSON REFINERY	01	ROD	2008	Ex Situ	Solidification/Stabilization
OKD082471988	HUDSON REFINERY	01	ROD	2008	Ex Situ	Surface Water Treatment
Texas						
TXD007330053	GARLAND CREOSOTING	01	ROD	2006	Ex Situ	Free Product Recovery
TXD050299577	HART CREOSOTING COMPANY	01	ROD	2006	Ex Situ	Free Product Recovery
TXD050299577	HART CREOSOTING COMPANY	01	ROD	2006	Ex Situ	Incineration (Off Site)
TXD050299577	HART CREOSOTING COMPANY	01	ROD	2006	Ex Situ	Solidification/Stabilization
TXD050299577	HART CREOSOTING COMPANY	01	ROD	2006	Ex Situ	Surface Water Treatment
TXD008096240	JASPER CREOSOTING COMPANY INC.	01	ROD	2006	Ex Situ	Free Product Recovery
TXD008096240	JASPER CREOSOTING COMPANY INC.	01	ROD	2006	Ex Situ	Incineration (Off Site)
TXD068104561	PALMER BARGE LINE	00	ROD	2005	Ex Situ	Physical Separation
TXD068104561	PALMER BARGE LINE	00	ROD	2005	Ex Situ	Recycling
TX4890110527	PANTEX PLANT (USDOE)	00	ROD	2008	In Situ	Soil Vapor Extraction
TXD980873350	PETRO-CHEMICAL SYSTEMS, INC. (TURTLE BAYOU)	02	ROD-A	2006	In Situ	Chemical Treatment
TXSFN0605177	STATE ROAD 114 GROUNDWATER PLUME	00	ROD	2008	In Situ	Bioventing
TXSFN0605177	STATE ROAD 114 GROUNDWATER PLUME	00	ROD	2008	In Situ	Soil Vapor Extraction
Region 7						
Kansas						
KSD031349624	CHEMICAL COMMODITIES, INC.	01	ROD	2005	In Situ	Chemical Treatment
KSD980741862	CHEROKEE COUNTY	03	ROD-A	2006	Ex Situ	Recycling
KSD980741862	CHEROKEE COUNTY	04	ROD-A	2006	Ex Situ	Recycling
KSD980631766	OBEE ROAD	02	ROD	2007	In Situ	Multi-Phase Extraction
KSD000829846	PESTER REFINERY CO.	01	ROD-A	2005	In Situ	Solidification/Stabilization
KSD000829846	PESTER REFINERY CO.	01	ROD-A	2005	Ex Situ	Surface Water Treatment
Missouri						
MO0000958611	ANNAPOLIS LEAD MINE	01	ROD	2005	Ex Situ	Solidification/Stabilization
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	02	ROD	2007	In Situ	Bioremediation
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	02	ROD	2007	In Situ	Multi-Phase Extraction
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	02	ROD	2007	In Situ	Solidification/Stabilization
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	03	ROD	2007	In Situ	Bioremediation
MOD098633415	MADISON COUNTY MINES	03	ROD	2008	Ex Situ	Solidification/Stabilization
MOD980633176	ST. LOUIS AIRPORT/HAZELWOOD INTERIM STORAGE/FUTURA COATINGS CO.	01	ROD	2005	Ex Situ	Physical Separation

EPA ID	Site Name	Operable Unit	Decision Document Type	FY	Technology Mode	Technology Type
Region 7, continued						
Nebraska						
NED981713837	10TH STREET SITE	02	ROD	2005	In Situ	Soil Vapor Extraction
NED980862668	HASTINGS GROUND WATER CONTAMINATION	12	ROD	2006	In Situ	Chemical Treatment
NED980862668	HASTINGS GROUND WATER CONTAMINATION	12	ROD	2006	Ex Situ	Unspecified Thermal Treatment
NEN000704456	PARKVIEW WELL	02	ROD	2007	In Situ	Chemical Treatment
Region 8						
Colorado						
COD980717938	CALIFORNIA GULCH	11	ROD	2005	Ex Situ	Neutralization
COD980717938	CALIFORNIA GULCH	11	ROD	2005	Ex Situ	Solidification/Stabilization
COD981551427	CAPTAIN JACK MILL	01	ROD	2008	Ex Situ	Surface Water Treatment
COD980717557	CENTRAL CITY, CLEAR CREEK	03	ESD	2005	Ex Situ	Surface Water Treatment
COD980499248	LOWRY LANDFILL	00	ROD-A	2005	In Situ	Multi-Phase Extraction
COS210020769	ROCKY MOUNTAIN ARSENAL (USARMY) - Off-Site Waste Disposal	03	ESD	2008	Ex Situ	Recycling
Montana						
MT0007623052	LOCKWOOD SOLVENT GROUND WATER PLUME	01	ROD	2005	In Situ	Bioremediation
MT0007623052	LOCKWOOD SOLVENT GROUND WATER PLUME	01	ROD	2005	In Situ	Chemical Treatment
MT0007623052	LOCKWOOD SOLVENT GROUND WATER PLUME	01	ROD	2005	In Situ	Soil Vapor Extraction
MT0007623052	LOCKWOOD SOLVENT GROUND WATER PLUME	01	ROD	2005	Ex Situ	Thermal Desorption
MTD980717565	MILLTOWN RESERVOIR SEDIMENTS	02	ROD	2005	Ex Situ	Physical Separation
MTD980502777	SILVER BOW CREEK/BUTTE AREA	08	ROD	2006	Ex Situ	Physical Separation
South Dakota						
SDD987673985	GILT EDGE MINE	01	ROD	2008	Ex Situ	Surface Water Treatment
Utah						
UT0001119296	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	01	ROD	2006	In Situ	Bioremediation
UT0001119296	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	02	ROD	2007	In Situ	Soil Vapor Extraction
UTD988075719	DAVENPORT AND FLAGSTAFF SMELTERS	01	ESD	2006	Ex Situ	Solidification/Stabilization
UTD988075719	DAVENPORT AND FLAGSTAFF SMELTERS	01	ESD	2006	In Situ	Solidification/Stabilization
UT3213820894	TOOELE ARMY DEPOT (NORTH AREA)	09	ROD	2008	Ex Situ	Unspecified Off Site Treatment
Wyoming						
WY5571924179	F.E. WARREN AIR FORCE BASE	02	ROD-A	2007	In Situ	Volatilization
Region 9						
California						
CA2170023236	ALAMEDA NAVAL AIR STATION	09	ROD	2007	Ex Situ	Physical Separation
CA2170023236	ALAMEDA NAVAL AIR STATION	14	ROD	2007	In Situ	Soil Vapor Extraction
CA8170024261	BARSTOW MARINE CORPS LOGISTICS BASE	02	ROD	2006	In Situ	Soil Vapor Extraction
CA2170023533	CAMP PENDLETON MARINE CORPS BASE	04	ROD	2007	Ex Situ	Solidification/Stabilization

EPA ID	Site Name	Operable Unit	Decision Document Type	FY	Technology Mode	Technology Type
Region 9, continued						
California, continued						
CA2170023533	CAMP PENDLETON MARINE CORPS BASE	05	ROD	2008	Ex Situ	Solidification/Stabilization
CA3570024551	CASTLE AIR FORCE BASE (6 AREAS)	04	ROD	2005	In Situ	Bioventing
CA3570024551	CASTLE AIR FORCE BASE (6 AREAS)	04	ROD	2005	In Situ	Soil Vapor Extraction
CAD029544731	DEL AMO	02	ESD	2006	In Situ	Bioventing
CAD071530380	FRONTIER FERTILIZER	01	ROD	2006	In Situ	In Situ Thermal Treatment
CAD071530380	FRONTIER FERTILIZER	01	ROD	2006	In Situ	Soil Vapor Extraction
CA2890090002	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	ROD	2008	Ex Situ	Physical Separation
CA4570024337	MCCLELLAN AIR FORCE BASE (GROUND WATER CONTAMINATION)	01	ROD	2007	In Situ	Soil Vapor Extraction
CAD042245001	OMEGA CHEMICAL CORPORATION	01	ROD	2008	In Situ	In Situ Thermal Treatment
CAD042245001	OMEGA CHEMICAL CORPORATION	01	ROD	2008	In Situ	Multi-Phase Extraction
CAD042245001	OMEGA CHEMICAL CORPORATION	01	ROD	2008	Ex Situ	Physical Separation
CAD042245001	OMEGA CHEMICAL CORPORATION	01	ROD	2008	In Situ	Soil Vapor Extraction
CAD980737092	PEMACO MAYWOOD	01	ROD	2005	In Situ	In Situ Thermal Treatment
CAD980737092	PEMACO MAYWOOD	01	ROD	2005	In Situ	Soil Vapor Extraction
CAD980736151	PURITY OIL SALES, INC.	02	ROD-A	2006	Ex Situ	Neutralization
CAD980736151	PURITY OIL SALES, INC.	02	ROD-A	2006	In Situ	Soil Vapor Extraction
Guam						
GU6571999519	ANDERSEN AIR FORCE BASE	07	ROD	2005	Ex Situ	Open Burn/Open Detonation
GU6571999519	ANDERSEN AIR FORCE BASE	07	ROD	2005	Ex Situ	Physical Separation
GU6571999519	ANDERSEN AIR FORCE BASE	07	ROD	2005	Ex Situ	Recycling
GU6571999519	ANDERSEN AIR FORCE BASE	08	ROD	2007	Ex Situ	Solidification/Stabilization
Region 10						
Idaho						
ID4890008952	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	03	ESD	2005	Ex Situ	Air Sparging
ID4890008952	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	03	ESD	2005	Ex Situ	Chemical Treatment
ID4890008952	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	03	ESD	2005	Ex Situ	Solidification/Stabilization
ID4890008952	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	03	ESD	2005	Ex Situ	Unspecified On Site Treatment
ID4890008952	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	11	ESD	2005	Ex Situ	Air Sparging
ID4890008952	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	11	ESD	2005	Ex Situ	Chemical Treatment
ID4890008952	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	11	ESD	2005	Ex Situ	Solidification/Stabilization
ID4890008952	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	16	ROD	2008	In Situ	Soil Vapor Extraction
Oregon						
OR6213820917	UMATILLA ARMY DEPOT (LAGOONS)	09	ROD	2005	Ex Situ	Recycling
Washington						
WAD980978753	MIDNITE MINE	01	ROD	2006	Ex Situ	Leachate Treatment

Appendix E: Groundwater Remedies Selected in Decision Documents from FY 2005–08, Organized by Technology

Additional information regarding these sites, including site progress profiles, can be obtained by searching the Superfund Information System website at <http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm>. Additional information regarding treatment technologies is available from the EPA CLU-IN website at www.clu-in.org.

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Air Sparging						
2005	BOG CREEK FARM	02	ROD-A	02	NJ	NJD063157150
2005	SENECA ARMY DEPOT	01	ROD	02	NY	NY0213820830
2005	PEAK OIL CO./BAY DRUM CO.	02	ROD-A	04	FL	FLD004091807
2005	FOREST WASTE PRODUCTS	02	ROD-A	05	MI	MID980410740
2007	SPARTAN CHEMICAL CO.	00	ROD	05	MI	MID079300125
2008	VERONA WELL FIELD	01	ESD	05	MI	MID980793806
2008	VERONA WELL FIELD	02	ESD	05	MI	MID980793806
2005	10TH STREET SITE	02	ROD	07	NE	NED981713837
2006	HILL AIR FORCE BASE	05	ROD	08	UT	UT0571724350
2006	BARSTOW MARINE CORPS LOGISTICS BASE	02	ROD	09	CA	CA8170024261
Alternative Water Supply						
2005	DURHAM MEADOWS	01	ROD	01	CT	CTD001452093
2006	EASTLAND WOOLEN MILL	01	ROD-A	01	ME	MED980915474
2008	HOPEWELL PRECISION	02	ROD	02	NY	NYD066813064
2005	SENECA ARMY DEPOT	01	ROD	02	NY	NY0213820830
2006	ORDNANCE PRODUCTS, INC.	01	ROD	03	MD	MDD982364341
2007	BALLY GROUND WATER CONTAMINATION	01	ROD-A	03	PA	PAD061105128
2008	RYELAND ROAD ARSENIC SITE	01	ROD-A	03	PA	PAD981033459
2006	TOWER CHEMICAL CO.	03	ROD	04	FL	FLD004065546
2005	K&L AVENUE LANDFILL	01	ROD-A	05	MI	MID980506463
2008	TAR CREEK (OTTAWA COUNTY)	04	ROD	06	OK	OKD980629844
2008	STATE ROAD 114 GROUNDWATER PLUME	00	ROD	06	TX	TXSFN0605177
2005	IOWA ARMY AMMUNITION PLANT	03	ROD	07	IA	IA7213820445
2007	OBEE ROAD	02	ROD	07	KS	KSD980631766
2005	MISSOURI ELECTRIC WORKS	02	ROD	07	MO	MOD980965982
2007	OAK GROVE VILLAGE WELL	01	ROD	07	MO	MOD981717036

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Alternative Water Supply, continued						
2006	OGALLALA GROUND WATER CONTAMINATION	02	ROD	07	NE	NED986369247
2006	PARKVIEW WELL	01	ROD	07	NE	NEN000704456
2005	MILLTOWN RESERVOIR SEDIMENTS	02	ROD	08	MT	MTD980717565
2008	UPPER TENMILE CREEK MINING AREA	04	ROD-A	08	MT	MTSFN7578012
2007	ARSENIC TRIOXIDE SITE	01	ESD	08	ND	NDD980716963
2008	ARSENIC TRIOXIDE SITE	01	ESD	08	ND	NDD980716963
2007	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	02	ROD	08	UT	UT0001119296
2006	CASTLE AIR FORCE BASE (6 AREAS)	01	ROD	09	CA	CA3570024551
2008	FORT ORD	12	ROD	09	CA	CA7210020676
2008	LAVA CAP MINE	02	ROD	09	CA	CAD983618893
2008	MOSES LAKE WELLFIELD CONTAMINATION	01	ROD	10	WA	WAD988466355
Bioremediation						
2007	HANSCOM FIELD/HANSCOM AIR FORCE BASE	01	ROD	01	MA	MA8570024424
2006	INDUSTRI-PLEX	02	ROD	01	MA	MAD076580950
2006	EASTLAND WOOLEN MILL	01	ROD-A	01	ME	MED980915474
2005	BOG CREEK FARM	02	ROD-A	02	NJ	NJD063157150
2006	BRIDGEPORT RENTAL & OIL SERVICES	02	ROD	02	NJ	NJD053292652
2008	EMMELL'S SEPTIC LANDFILL	02	ROD	02	NJ	NJD980772727
2006	ICELAND COIN LAUNDRY AREA GW PLUME	01	ROD	02	NJ	NJ0001360882
2005	MONITOR DEVICES, INC./INTERCIRCUITS, INC.	01	ROD	02	NJ	NJD980529408
2007	NEPERA CHEMICAL CO., INC.	01	ROD	02	NY	NYD000511451
2006	DOVER AIR FORCE BASE	15	ROD	03	DE	DE8570024010
2006	DOVER AIR FORCE BASE	16	ROD	03	DE	DE8570024010
2006	DOVER AIR FORCE BASE	17	ROD	03	DE	DE8570024010
2006	DOVER AIR FORCE BASE	19	ROD	03	DE	DE8570024010
2006	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	06	ROD	03	MD	MD3210021355
2006	ANDREWS AIR FORCE BASE	03	ROD	03	MD	MD0570024000
2005	ANDREWS AIR FORCE BASE	07	ROD	03	MD	MD0570024000
2007	ANDREWS AIR FORCE BASE	11	ROD	03	MD	MD0570024000
2006	BRANDYWINE DRMO	01	ROD	03	MD	MD9570024803

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Bioremediation, continued						
2007	INDIAN HEAD NAVAL SURFACE WARFARE CENTER	01	ROD	03	MD	MD7170024684
2008	PATUXENT RIVER NAVAL AIR STATION	24	ROD	03	MD	MD7170024536
2007	BRESLUBE-PENN, INC.	01	ROD	03	PA	PAD089667695
2006	FOOTE MINERAL CO.	01	ROD	03	PA	PAD077087989
2006	LETTERKENNY ARMY DEPOT (SE AREA)	10	ROD	03	PA	PA6213820503
2007	DEFENSE GENERAL SUPPLY CENTER (DLA)	08	ROD	03	VA	VA3971520751
2008	MARINE CORPS COMBAT DEVELOPMENT COMMAND	19	ROD	03	VA	VA1170024722
2007	NAVAL AMPHIBIOUS BASE LITTLE CREEK	05	ROD	03	VA	VA5170022482
2005	NAVAL AMPHIBIOUS BASE LITTLE CREEK	06	ROD	03	VA	VA5170022482
2007	NAVAL AMPHIBIOUS BASE LITTLE CREEK	07	ROD	03	VA	VA5170022482
2008	NAVAL SURFACE WARFARE CENTER - DAHLGREN	19	ROD	03	VA	VA7170024684
2007	FIKE CHEMICAL, INC.	04	ROD-A	03	WV	WVD047989207
2008	ESCAMBIA WOOD - PENSACOLA	02	ROD	04	FL	FLD008168346
2005	JACKSONVILLE NAVAL AIR STATION	05	ROD	04	FL	FL6170024412
2007	LANDIA CHEMICAL COMPANY	01	ROD	04	FL	FLD042110841
2005	PEAK OIL CO./BAY DRUM CO.	02	ROD-A	04	FL	FLD004091807
2006	TOWER CHEMICAL CO.	03	ROD	04	FL	FLD004065546
2008	USN AIR STATION CECIL FIELD	09	ROD	04	FL	FL5170022474
2007	PICAYUNE WOOD TREATING SITE	00	ROD	04	MS	MSD065490930
2006	FCX, INC. (STATESVILLE PLANT)	03	ESD	04	NC	NCD095458527
2008	PALMETTO WOOD PRESERVING	01	ROD-A	04	SC	SCD003362217
2005	PARSONS CASKET HARDWARE CO.	02	ROD	05	IL	ILD005252432
2005	K&L AVENUE LANDFILL	01	ROD-A	05	MI	MID980506463
2005	OUACHITA NEVADA WOOD TREATER	01	ROD	06	AR	ARD042755231
2006	GRANTS CHLORINATED SOLVENTS	00	ROD	06	NM	NM0007271768
2008	MCGAFFEY AND MAIN GROUNDWATER PLUME	00	ROD	06	NM	NM0000605386
2008	NORTH RAILROAD AVENUE PLUME	01	ESD	06	NM	NMD986670156
2008	PANTEX PLANT (USDOE)	00	ROD	06	TX	TX4890110527
2005	IOWA ARMY AMMUNITION PLANT	03	ROD	07	IA	IA7213820445
2008	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	01	ROD	07	MO	MO3213890012

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Bioremediation, continued						
2007	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	03	ROD	07	MO	MO3213890012
2005	MISSOURI ELECTRIC WORKS	02	ROD	07	MO	MOD980965982
2007	HASTINGS GROUND WATER CONTAMINATION	06	ROD	07	NE	NED980862668
2005	LOCKWOOD SOLVENT GROUND WATER PLUME	01	ROD	08	MT	MT0007623052
2006	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	01	ROD	08	UT	UT0001119296
2007	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	02	ROD	08	UT	UT0001119296
2006	F.E. WARREN AIR FORCE BASE	02	ROD	08	WY	WY5571924179
2007	ALAMEDA NAVAL AIR STATION	01	ROD	09	CA	CA2170023236
2006	ALAMEDA NAVAL AIR STATION	06	ROD	09	CA	CA2170023236
2007	ALAMEDA NAVAL AIR STATION	14	ROD	09	CA	CA2170023236
2007	ALAMEDA NAVAL AIR STATION	16	ROD	09	CA	CA2170023236
2008	FORT ORD	12	ROD	09	CA	CA7210020676
2006	FRONTIER FERTILIZER	01	ROD	09	CA	CAD071530380
2005	SELMA TREATING CO.	01	ESD	09	CA	CAD029452141
Chemical Treatment						
2007	HANSCOM FIELD/HANSCOM AIR FORCE BASE	01	ROD	01	MA	MA8570024424
2006	EASTLAND WOOLEN MILL	01	ROD-A	01	ME	MED980915474
2007	OTTATI & GOSS/KINGSTON STEEL DRUM	01	ROD-A	01	NH	NHD990717647
2006	WEST KINGSTON TOWN DUMP/URI DISPOSAL AREA	01	ROD	01	RI	RID981063993
2005	BOG CREEK FARM	02	ROD-A	02	NJ	NJD063157150
2006	BRIDGEPORT RENTAL & OIL SERVICES	02	ROD	02	NJ	NJD053292652
2005	DOVER MUNICIPAL WELL 4	02	ROD	02	NJ	NJD980654131
2006	PUCHACK WELL FIELD	01	ROD	02	NJ	NJD981084767
2007	FULTON AVENUE	01	ROD	02	NY	NY0000110247
2006	LAWRENCE AVIATION INDUSTRIES, INC.	01	ROD	02	NY	NYD002041531
2008	PLATTSBURGH AIR FORCE BASE	19	ROD	02	NY	NY4571924774
2005	NAVY SHIPS PARTS CONTROL CENTER	04	ROD	03	PA	PA3170022104
2005	NAVAL AMPHIBIOUS BASE LITTLE CREEK	06	ROD	03	VA	VA5170022482
2007	FIKE CHEMICAL, INC.	04	ROD-A	03	WV	WVD047989207
2008	ESCAMBIA WOOD - PENSACOLA	02	ROD	04	FL	FLD008168346

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Chemical Treatment, continued						
2007	JACKSONVILLE NAVAL AIR STATION	06	ROD	04	FL	FL6170024412
2007	LANDIA CHEMICAL COMPANY	01	ROD	04	FL	FLD042110841
2005	MARINE CORPS LOGISTICS BASE	06	ESD	04	GA	GA7170023694
2007	PEACH ORCHARD RD PCE GROUNDWATER PLUME SITE	01	ROD	04	GA	GAN000407449
2007	PICAYUNE WOOD TREATING SITE	00	ROD	04	MS	MSD065490930
2007	CAMP LEJEUNE MILITARY RES. (USNAVY)	17	ROD	04	NC	NC6170022580
2005	FOREST WASTE PRODUCTS	02	ROD-A	05	MI	MID980410740
2007	SPARTAN CHEMICAL CO.	00	ROD	05	MI	MID079300125
2006	GRANTS CHLORINATED SOLVENTS	00	ROD	06	NM	NM0007271768
2006	PETRO-CHEMICAL SYSTEMS, INC. (TURTLE BAYOU)	02	ROD-A	06	TX	TXD980873350
2005	CHEMICAL COMMODITIES, INC.	01	ROD	07	KS	KSD031349624
2005	10TH STREET SITE	02	ROD	07	NE	NED981713837
2008	HASTINGS GROUND WATER CONTAMINATION	12	ROD-A	07	NE	NED980862668
2006	OGALLALA GROUND WATER CONTAMINATION	02	ROD	07	NE	NED986369247
2007	PARKVIEW WELL	02	ROD	07	NE	NEN000704456
2006	F.E. WARREN AIR FORCE BASE	02	ROD	08	WY	WY5571924179
2005	F.E. WARREN AIR FORCE BASE	11	ROD-A	08	WY	WY5571924179
2007	ALAMEDA NAVAL AIR STATION	01	ROD	09	CA	CA2170023236
2006	ALAMEDA NAVAL AIR STATION	06	ROD	09	CA	CA2170023236
2007	ALAMEDA NAVAL AIR STATION	11	ROD	09	CA	CA2170023236
2008	ALAMEDA NAVAL AIR STATION	15	ROD	09	CA	CA2170023236
2007	ALAMEDA NAVAL AIR STATION	16	ROD	09	CA	CA2170023236
2006	EDWARDS AIR FORCE BASE	06	ROD	09	CA	CA1570024504
Engineering Control						
2007	ONONDAGA LAKE	08	ROD	02	NY	NYD986913580
2006	RYELAND ROAD ARSENIC SITE	01	ROD	03	PA	PAD981033459
2007	SHARON STEEL CORP (FARRELL WORKS DISPOSAL AREA)	01	ROD	03	PA	PAD001933175
2007	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	03	ROD	07	MO	MO3213890012
Fracturing						
2005	GREENWOOD CHEMICAL CO.	04	ROD	03	VA	VAD003125374

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Groundwater Containment (VEB)						
2007	SUTTON BROOK DISPOSAL AREA	01	ROD	01	MA	MAD980520696
2006	WELLS G&H	03	ROD	01	MA	MAD980732168
2007	VENTRON/VELSICOL	01	ROD	02	NJ	NJD980529879
2005	PETER COOPER	01	ROD	02	NY	NYD980530265
2005	KOPPERS CO., INC. (NEWPORT PLANT)	01	ROD	03	DE	DED980552244
2008	MRI CORP (TAMPA)	02	ROD	04	FL	FLD088787585
2007	STAUFFER CHEMICAL CO. (TARPON SPRINGS)	01	ESD	04	FL	FLD010596013
2007	AMERICAN CREOSOTE WORKS INC	01	ROD	04	MS	MSD004006995
2007	PICAYUNE WOOD TREATING SITE	00	ROD	04	MS	MSD065490930
2006	ENVIROCHEM CORP.	01	ESD	05	IN	IND084259951
2005	OUACHITA NEVADA WOOD TREATER	01	ROD	06	AR	ARD042755231
2006	ROCKY MOUNTAIN ARSENAL (USARMY)	03	ROD-A	08	CO	CO5210020769
2006	HILL AIR FORCE BASE	05	ROD	08	UT	UT0571724350
2007	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	ROD-A	09	CA	CA2890090002
2005	TAYLOR LUMBER AND TREATING	01	ROD	10	OR	ORD009042532
Institutional Controls						
2005	DURHAM MEADOWS	01	ROD	01	CT	CTD001452093
2007	NEW LONDON SUBMARINE BASE	02	ROD	01	CT	CTD980906515
2005	NEW LONDON SUBMARINE BASE	09	ROD	01	CT	CTD980906515
2008	NEW LONDON SUBMARINE BASE	09	ROD	01	CT	CTD980906515
2006	OLD SOUTHTON LANDFILL	02	ROD	01	CT	CTD980670806
2005	SOLVENTS RECOVERY SERVICE OF NEW ENGLAND	03	ROD	01	CT	CTD009717604
2005	BAIRD & MCGUIRE	01	ESD	01	MA	MAD001041987
2008	BLACKBURN & UNION PRIVILEGES	01	ROD	01	MA	MAD982191363
2006	FORT DEVENS	06	ESD	01	MA	MA7210025154
2007	HANSCOM FIELD/HANSCOM AIR FORCE BASE	01	ROD	01	MA	MA8570024424
2005	HATHEWAY & PATTERSON	01	ROD	01	MA	MAD001060805
2006	INDUSTRI-PLEX	02	ROD	01	MA	MAD076580950
2006	NYANZA CHEMICAL WASTE DUMP	02	ESD	01	MA	MAD990685422
2006	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	01	ROD	01	MA	MA2570024487

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Institutional Controls, continued						
2006	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	13	ROD	01	MA	MA2570024487
2007	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	16	ROD	01	MA	MA2570024487
2006	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	24	ROD	01	MA	MA2570024487
2007	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	25	ROD	01	MA	MA2570024487
2007	SOUTH WEYMOUTH NAVAL AIR STATION	01	ROD	01	MA	MA2170022022
2007	SUTTON BROOK DISPOSAL AREA	01	ROD	01	MA	MAD980520696
2005	W.R. GRACE & CO., INC. (ACTON PLANT)	03	ROD	01	MA	MAD001002252
2006	WELLS G&H	03	ROD	01	MA	MAD980732168
2006	EASTLAND WOOLEN MILL	01	ROD-A	01	ME	MED980915474
2007	OTTATI & GOSS/KINGSTON STEEL DRUM	01	ROD-A	01	NH	NHD990717647
2005	TROY MILLS LANDFILL	01	ROD	01	NH	NHD980520217
2008	NEWPORT NAVAL EDUCATION & TRAINING CENTER	01	ESD	01	RI	RI6170085470
2007	STAMINA MILLS, INC.	01	ESD	01	RI	RID980731442
2006	WEST KINGSTON TOWN DUMP/URI DISPOSAL AREA	01	ROD	01	RI	RID981063993
2006	ELIZABETH MINE	01	ROD	01	VT	VTD988366621
2007	POWNA TANNERY	01	ESD	01	VT	VTD069910354
2005	BOG CREEK FARM	02	ROD-A	02	NJ	NJD063157150
2008	BRICK TOWNSHIP LANDFILL	01	ROD	02	NJ	NJD980505176
2006	BRIDGEPORT RENTAL & OIL SERVICES	02	ROD	02	NJ	NJD053292652
2005	DOVER MUNICIPAL WELL 4	02	ROD	02	NJ	NJD980654131
2008	EMMELL'S SEPTIC LANDFILL	02	ROD	02	NJ	NJD980772727
2006	ICELAND COIN LAUNDRY AREA GW PLUME	01	ROD	02	NJ	NJ0001360882
2005	MARTIN AARON, INC.	01	ROD	02	NJ	NJD014623854
2005	MONITOR DEVICES, INC./INTERCIRCUITS, INC.	01	ROD	02	NJ	NJD980529408
2005	MYERS PROPERTY	02	ROD	02	NJ	NJD980654198
2006	NAVAL WEAPONS STATION EARLE (SITE A)	06	ROD	02	NJ	NJ0170022172
2007	NAVAL WEAPONS STATION EARLE (SITE A)	07	ROD	02	NJ	NJ0170022172
2005	NAVAL WEAPONS STATION EARLE (SITE A)	08	ROD	02	NJ	NJ0170022172
2007	NAVAL WEAPONS STATION EARLE (SITE A)	09	ROD	02	NJ	NJ0170022172
2005	PICATINNY ARSENAL (USARMY)	03	ROD	02	NJ	NJ3210020704

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Institutional Controls, continued						
2007	PICATINNY ARSENAL (USARMY) - Area E Groundwater/Site 22	02	ROD	02	NJ	NJ3210020704
2006	POHATCONG VALLEY GROUND WATER CONTAMINATION	01	ROD	02	NJ	NJD981179047
2006	PUCHACK WELL FIELD	01	ROD	02	NJ	NJD981084767
2007	VENTRON/VELSICOL	01	ROD	02	NJ	NJD980529879
2008	WALDICK AEROSPACE DEVICES, INC.	02	ROD-A	02	NJ	NJD054981337
2005	BROOKHAVEN NATIONAL LABORATORY (USDOE)	03	ESD	02	NY	NY7890008975
2007	BROOKHAVEN NATIONAL LABORATORY (USDOE)	08	ROD	02	NY	NY7890008975
2008	COMPUTER CIRCUITS	01	ROD	02	NY	NYD125499673
2007	CONSOLIDATED IRON AND METAL	01	ROD	02	NY	NY0002455756
2007	FULTON AVENUE	01	ROD	02	NY	NY0000110247
2005	GRIFFISS AIR FORCE BASE (11 AREAS)	24	ROD	02	NY	NY4571924451
2005	GRIFFISS AIR FORCE BASE (11 AREAS)	27	ROD	02	NY	NY4571924451
2005	GRIFFISS AIR FORCE BASE (11 AREAS)	28	ROD	02	NY	NY4571924451
2005	HERTEL LANDFILL	01	ROD-A	02	NY	NYD980780779
2006	HITEMAN LEATHER	01	ROD	02	NY	NYD981560915
2006	LAWRENCE AVIATION INDUSTRIES, INC.	01	ROD	02	NY	NYD002041531
2005	LI TUNGSTEN CORP.	02	ESD	02	NY	NYD986882660
2005	LITTLE VALLEY	02	ROD	02	NY	NY0001233634
2008	MERCURY REFINING, INC.	01	ROD	02	NY	NYD048148175
2008	MOHONK ROAD INDUSTRIAL PLANT	01	ROD-A	02	NY	NYD986950012
2007	NEPERA CHEMICAL CO., INC.	01	ROD	02	NY	NYD000511451
2007	OLD ROOSEVELT FIELD CONTAMINATED GW AREA	01	ROD	02	NY	NYSFN0204234
2007	ONONDAGA LAKE	08	ROD	02	NY	NYD986913580
2005	PETER COOPER	01	ROD	02	NY	NYD980530265
2007	PETER COOPER CORPORATION (MARKHAMS)	01	ROD	02	NY	NYD980592547
2008	PLATTSBURGH AIR FORCE BASE	19	ROD	02	NY	NY4571924774
2005	SENECA ARMY DEPOT	01	ROD	02	NY	NY0213820830
2006	SENECA ARMY DEPOT	04	ROD	02	NY	NY0213820830
2007	SENECA ARMY DEPOT	09	ROD	02	NY	NY0213820830
2007	SENECA ARMY DEPOT	10	ROD	02	NY	NY0213820830

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Institutional Controls, continued						
2008	SENECA ARMY DEPOT	17	ROD	02	NY	NY0213820830
2006	DOVER AIR FORCE BASE	15	ROD	03	DE	DE8570024010
2006	DOVER AIR FORCE BASE	16	ROD	03	DE	DE8570024010
2006	DOVER AIR FORCE BASE	17	ROD	03	DE	DE8570024010
2006	DOVER AIR FORCE BASE	19	ROD	03	DE	DE8570024010
2006	DOVER AIR FORCE BASE	23	ROD	03	DE	DE8570024010
2006	DOVER AIR FORCE BASE	24	ROD	03	DE	DE8570024010
2005	KOPPERS CO., INC. (NEWPORT PLANT)	01	ROD	03	DE	DED980552244
2007	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	18	ROD	03	MD	MD2210020036
2007	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	35	ROD	03	MD	MD2210020036
2007	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	40	ROD	03	MD	MD2210020036
2006	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	06	ROD	03	MD	MD3210021355
2006	ANDREWS AIR FORCE BASE	03	ROD	03	MD	MD0570024000
2005	ANDREWS AIR FORCE BASE	07	ROD	03	MD	MD0570024000
2007	ANDREWS AIR FORCE BASE	11	ROD	03	MD	MD0570024000
2006	BRANDYWINE DRMO	01	ROD	03	MD	MD9570024803
2007	INDIAN HEAD NAVAL SURFACE WARFARE CENTER	01	ROD	03	MD	MD7170024684
2005	INDIAN HEAD NAVAL SURFACE WARFARE CENTER	05	ROD	03	MD	MD7170024684
2006	ORDNANCE PRODUCTS, INC.	01	ROD	03	MD	MDD982364341
2008	PATUXENT RIVER NAVAL AIR STATION	24	ROD	03	MD	MD7170024536
2008	BENDIX FLIGHT SYSTEMS DIVISION	01	ESD	03	PA	PAD003047974
2007	BRESLUBE-PENN, INC.	01	ROD	03	PA	PAD089667695
2008	CROSSLEY FARM	02	ROD-A	03	PA	PAD981740061
2007	DORNEY ROAD LANDFILL	01	ESD	03	PA	PAD980508832
2006	FOOTE MINERAL CO.	01	ROD	03	PA	PAD077087989
2008	HAVERTOWN PCP	03	ROD	03	PA	PAD002338010
2006	LETTERKENNY ARMY DEPOT (SE AREA)	10	ROD	03	PA	PA6213820503
2005	NAVY SHIPS PARTS CONTROL CENTER	04	ROD	03	PA	PA3170022104
2007	RAYMARK	02	ESD	03	PA	PAD039017694
2007	SHARON STEEL CORP (FARRELL WORKS DISPOSAL AREA)	01	ROD	03	PA	PAD001933175

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Institutional Controls, continued						
2007	UGI COLUMBIA GAS PLANT	01	ROD	03	PA	PAD980539126
2006	WALSH LANDFILL	04	ROD	03	PA	PAD980829527
2008	WILLOW GROVE NAVAL AIR AND AIR RESERVE STATION	03	ROD	03	PA	PAD987277837
2008	ATLANTIC WOOD INDUSTRIES, INC.	02	ROD	03	VA	VAD990710410
2007	DEFENSE GENERAL SUPPLY CENTER (DLA)	08	ROD	03	VA	VA3971520751
2007	DEFENSE GENERAL SUPPLY CENTER (DLA)	10	ROD	03	VA	VA3971520751
2007	DEFENSE GENERAL SUPPLY CENTER (DLA)	11	ROD	03	VA	VA3971520751
2006	DEFENSE GENERAL SUPPLY CENTER (DLA)	12	ROD	03	VA	VA3971520751
2005	GREENWOOD CHEMICAL CO.	04	ROD	03	VA	VAD003125374
2007	H & H INC., BURN PIT	01	ESD	03	VA	VAD980539878
2008	MARINE CORPS COMBAT DEVELOPMENT COMMAND	04	ROD	03	VA	VA1170024722
2008	MARINE CORPS COMBAT DEVELOPMENT COMMAND	19	ROD	03	VA	VA1170024722
2005	NAVAL AMPHIBIOUS BASE LITTLE CREEK	06	ROD	03	VA	VA5170022482
2007	NAVAL AMPHIBIOUS BASE LITTLE CREEK	07	ROD	03	VA	VA5170022482
2008	NAVAL SURFACE WARFARE CENTER - DAHLGREN	19	ROD	03	VA	VA7170024684
2008	NORFOLK NAVAL BASE (SEWELLS POINT NAVAL COMPLEX)	10	ROD	03	VA	VA6170061463
2006	ALLEGANY BALLISTICS LABORATORY (USNAVY)	02	ROD	03	WV	WV0170023691
2005	ALLEGANY BALLISTICS LABORATORY (USNAVY)	05	ROD	03	WV	WV0170023691
2006	AMERICAN BRASS INC.	01	ROD	04	AL	ALD981868466
2006	ANNISTON ARMY DEPOT (SOUTHEAST INDUSTRIAL AREA)	03	ROD	04	AL	AL3210020027
2007	US NASA MARSHALL SPACE FLIGHT CENTER - Interim Groundwater	03	ROD	04	AL	AL1800013863
2007	USARMY/NASA REDSTONE ARSENAL	19	ROD	04	AL	AL7210020742
2008	ESCAMBIA WOOD - PENSACOLA	02	ROD	04	FL	FLD008168346
2006	HOMESTEAD AIR FORCE BASE	11	ROD	04	FL	FL7570024037
2006	HOMESTEAD AIR FORCE BASE	15	ROD	04	FL	FL7570024037
2006	HOMESTEAD AIR FORCE BASE	20	ROD	04	FL	FL7570024037
2006	HOMESTEAD AIR FORCE BASE	21	ROD	04	FL	FL7570024037
2006	HOMESTEAD AIR FORCE BASE	30	ROD	04	FL	FL7570024037
2006	HOMESTEAD AIR FORCE BASE	31	ROD	04	FL	FL7570024037
2007	JACKSONVILLE NAVAL AIR STATION	03	ROD	04	FL	FL6170024412

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Institutional Controls, continued						
2005	JACKSONVILLE NAVAL AIR STATION	05	ROD	04	FL	FL6170024412
2007	JACKSONVILLE NAVAL AIR STATION	06	ROD	04	FL	FL6170024412
2005	JACKSONVILLE NAVAL AIR STATION	07	ROD	04	FL	FL6170024412
2008	JACKSONVILLE NAVAL AIR STATION	08	ROD	04	FL	FL6170024412
2007	LANDIA CHEMICAL COMPANY	01	ROD	04	FL	FLD042110841
2008	MRI CORP (TAMPA)	02	ROD	04	FL	FLD088787585
2005	PEAK OIL CO./BAY DRUM CO.	02	ROD-A	04	FL	FLD004091807
2008	PENSACOLA NAVAL AIR STATION	02	ROD	04	FL	FL9170024567
2007	PENSACOLA NAVAL AIR STATION	11	ROD	04	FL	FL9170024567
2007	PENSACOLA NAVAL AIR STATION	13	ROD	04	FL	FL9170024567
2006	STAUFFER CHEMICAL CO (TAMPA)	01	ROD-A	04	FL	FLD004092532
2006	TOWER CHEMICAL CO.	03	ROD	04	FL	FLD004065546
2006	UNITED METALS, INC.	01	ROD	04	FL	FLD098924038
2005	USN AIR STATION CECIL FIELD	09	ROD	04	FL	FL5170022474
2005	USN AIR STATION CECIL FIELD	10	ROD	04	FL	FL5170022474
2007	PEACH ORCHARD RD PCE GROUNDWATER PLUME SITE	01	ROD	04	GA	GAN000407449
2005	PADUCAH GASEOUS DIFFUSION PLANT (USDOE)	19	ROD	04	KY	KY8890008982
2007	PICAYUNE WOOD TREATING SITE	00	ROD	04	MS	MSD065490930
2005	CAMP LEJEUNE MILITARY RES. (USNAVY)	07	ROD	04	NC	NC6170022580
2007	CAMP LEJEUNE MILITARY RES. (USNAVY)	17	ROD	04	NC	NC6170022580
2005	CHERRY POINT MARINE CORPS AIR STATION	04	ROD	04	NC	NC1170027261
2006	CHERRY POINT MARINE CORPS AIR STATION	05	ROD	04	NC	NC1170027261
2006	CHERRY POINT MARINE CORPS AIR STATION	06	ROD	04	NC	NC1170027261
2005	CHERRY POINT MARINE CORPS AIR STATION	13	ROD	04	NC	NC1170027261
2006	FCX, INC. (STATESVILLE PLANT)	01	ROD-A	04	NC	NCD095458527
2007	REASOR CHEMICAL COMPANY	01	ROD-A	04	NC	NCD986187094
2008	PALMETTO WOOD PRESERVING	01	ROD-A	04	SC	SCD003362217
2006	PARRIS ISLAND MARINE CORPS RECRUIT DEPOT	01	ROD	04	SC	SC6170022762
2007	PARRIS ISLAND MARINE CORPS RECRUIT DEPOT	05	ROD	04	SC	SC6170022762
2005	SAVANNAH RIVER SITE (USDOE)	24	ROD	04	SC	SCI890008989

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Institutional Controls, continued						
2008	SAVANNAH RIVER SITE (USDOE)	31	ROD	04	SC	SCI890008989
2007	SAVANNAH RIVER SITE (USDOE)	77	ROD	04	SC	SCI890008989
2007	TOWNSEND SAW CHAIN CO.	01	ESD	04	SC	SCD980558050
2006	OAK RIDGE RESERVATION (USDOE)	50	ROD	04	TN	TNI890090003
2008	SMALLEY-PIPER	01	ROD	04	TN	TNN000407378
2007	LENZ OIL SERVICE, INC.	01	ESD	05	IL	ILD005451711
2005	PARSONS CASKET HARDWARE CO.	02	ROD	05	IL	ILD005252432
2007	SANGAMO ELECTRIC DUMP/CRAB ORCHARD NATIONAL WILDLIFE REFUGE (USDOI)	02	ROD-A	05	IL	IL8143609487
2006	BENNETT STONE QUARRY	01	ROD-A	05	IN	IND006418651
2008	CAM-OR INC.	01	ROD	05	IN	IND005480462
2006	LEMON LANE LANDFILL	01	ROD-A	05	IN	IND980794341
2007	NEAL'S LANDFILL (BLOOMINGTON)	01	ROD-A	05	IN	IND980614556
2005	FOREST WASTE PRODUCTS	02	ROD-A	05	MI	MID980410740
2008	GRAND TRAVERSE OVERALL SUPPLY CO.	02	ROD	05	MI	MID017418559
2005	K&L AVENUE LANDFILL	01	ROD-A	05	MI	MID980506463
2006	NORTH BRONSON INDUSTRIAL SUBAREAS	01	ROD	05	MI	MIN000508192
2008	NORTH BRONSON INDUSTRIAL SUBAREAS	02	ROD	05	MI	MIN000508192
2007	SPARTAN CHEMICAL CO.	00	ROD	05	MI	MID079300125
2008	LEHILLIER/MANKATO	01	ESD	05	MN	MND980792469
2007	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	07	ROD-A	05	MN	MN7213820908
2005	NEASE CHEMICAL	02	ROD	05	OH	OHD980610018
2006	MIDLAND PRODUCTS	01	ROD-A	06	AR	ARD980745665
2005	OUACHITA NEVADA WOOD TREATER	01	ROD	06	AR	ARD042755231
2007	LOUISIANA ARMY AMMUNITION PLANT	05	ROD	06	LA	LA0213820533
2006	GRANTS CHLORINATED SOLVENTS	00	ROD	06	NM	NM0007271768
2007	GRIGGS & WALNUT GROUND WATER PLUME	01	ROD	06	NM	NM0002271286
2008	MCGAFFEY AND MAIN GROUNDWATER PLUME	00	ROD	06	NM	NM0000605386
2006	COMPASS INDUSTRIES (AVERY DRIVE)	01	ESD	06	OK	OKD980620983
2008	HUDSON REFINERY	01	ROD	06	OK	OKD082471988

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Institutional Controls, continued						
2008	TAR CREEK (OTTAWA COUNTY)	04	ROD	06	OK	OKD980629844
2007	AIR FORCE PLANT #4 (GENERAL DYNAMICS)	01	ESD	06	TX	TX7572024605
2006	GARLAND CREOSOTING	01	ROD	06	TX	TXD007330053
2007	GENEVA INDUSTRIES/FUHRMANN ENERGY	01	ESD	06	TX	TXD980748453
2006	HART CREOSOTING COMPANY	01	ROD	06	TX	TXD050299577
2006	JASPER CREOSOTING COMPANY INC.	01	ROD	06	TX	TXD008096240
2006	LONGHORN ARMY AMMUNITION PLANT	00	ROD	06	TX	TX6213820529
2008	PANTEX PLANT (USDOE)	00	ROD	06	TX	TX4890110527
2007	PESSES CHEMICAL CO.	01	ESD	06	TX	TXD980699656
2006	PETRO-CHEMICAL SYSTEMS, INC. (TURTLE BAYOU)	02	ROD-A	06	TX	TXD980873350
2008	STATE ROAD 114 GROUNDWATER PLUME	00	ROD	06	TX	TXSFN0605177
2005	IOWA ARMY AMMUNITION PLANT	03	ROD	07	IA	IA7213820445
2008	IOWA ARMY AMMUNITION PLANT	04	ROD	07	IA	IA7213820445
2005	RAILROAD AVENUE GROUNDWATER CONTAMINATION	01	ROD	07	IA	IA0001610963
2006	RAILROAD AVENUE GROUNDWATER CONTAMINATION	02	ROD	07	IA	IA0001610963
2005	CHEMICAL COMMODITIES, INC.	01	ROD	07	KS	KSD031349624
2008	FORT RILEY	03	ROD	07	KS	KS6214020756
2005	FORT RILEY	04	ROD	07	KS	KS6214020756
2006	FORT RILEY	05	ROD	07	KS	KS6214020756
2007	OBEE ROAD	02	ROD	07	KS	KSD980631766
2005	PESTER REFINERY CO.	01	ROD-A	07	KS	KSD000829846
2008	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	01	ROD	07	MO	MO3213890012
2007	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	03	ROD	07	MO	MO3213890012
2005	MISSOURI ELECTRIC WORKS	02	ROD	07	MO	MOD980965982
2007	OAK GROVE VILLAGE WELL	01	ROD	07	MO	MOD981717036
2007	RIVERFRONT	05	ROD	07	MO	MOD981720246
2005	WELDON SPRING QUARRY/PLANT/PITS (USDOE/ARMY)	06	ESD	07	MO	MO3210090004
2008	WESTLAKE LANDFILL	01	ROD	07	MO	MOD079900932
2008	WESTLAKE LANDFILL	02	ROD	07	MO	MOD079900932
2005	10TH STREET SITE	02	ROD	07	NE	NED981713837

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Institutional Controls, continued						
2005	BRUNO CO-OP ASSOCIATION/ASSOCIATED PROPERTIES	01	ESD	07	NE	NED981713829
2006	HASTINGS GROUND WATER CONTAMINATION	02	ROD	07	NE	NED980862668
2008	HASTINGS GROUND WATER CONTAMINATION	12	ROD-A	07	NE	NED980862668
2006	OGALLALA GROUND WATER CONTAMINATION	02	ROD	07	NE	NED986369247
2006	PARKVIEW WELL	01	ROD	07	NE	NEN000704456
2007	PARKVIEW WELL	02	ROD	07	NE	NEN000704456
2006	ROCKY FLATS PLANT (USDOE)	00	ROD	08	CO	C07890010526
2005	LOCKWOOD SOLVENT GROUND WATER PLUME	01	ROD	08	MT	MT0007623052
2005	MILLTOWN RESERVOIR SEDIMENTS	02	ROD	08	MT	MTD980717565
2006	SILVER BOW CREEK/BUTTE AREA	08	ROD	08	MT	MTD980502777
2006	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	01	ROD	08	UT	UT0001119296
2007	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	02	ROD	08	UT	UT0001119296
2006	HILL AIR FORCE BASE	05	ROD	08	UT	UT0571724350
2005	HILL AIR FORCE BASE	08	ROD	08	UT	UT0571724350
2008	HILL AIR FORCE BASE	12	ROD	08	UT	UT0571724350
2008	TOOELE ARMY DEPOT (NORTH AREA)	09	ROD	08	UT	UT3213820894
2006	F.E. WARREN AIR FORCE BASE	02	ROD	08	WY	WY5571924179
2005	APACHE POWDER CO.	01	ROD-A	09	AZ	AZD008399263
2006	NINETEENTH AVENUE LANDFILL	01	ESD	09	AZ	AZD980496780
2007	ALAMEDA NAVAL AIR STATION	01	ROD	09	CA	CA2170023236
2006	ALAMEDA NAVAL AIR STATION	06	ROD	09	CA	CA2170023236
2007	ALAMEDA NAVAL AIR STATION	11	ROD	09	CA	CA2170023236
2007	ALAMEDA NAVAL AIR STATION	14	ROD	09	CA	CA2170023236
2007	ALAMEDA NAVAL AIR STATION	16	ROD	09	CA	CA2170023236
2006	BARSTOW MARINE CORPS LOGISTICS BASE	02	ROD	09	CA	CA8170024261
2005	BECKMAN INSTRUMENTS (PORTERVILLE PLANT)	01	ROD-A	09	CA	CAD048645444
2007	BROWN & BRYANT, INC. (ARVIN PLANT)	02	ROD	09	CA	CAD052384021
2006	CASTLE AIR FORCE BASE (6 AREAS)	01	ROD	09	CA	CA3570024551
2007	EDWARDS AIR FORCE BASE	04	ROD	09	CA	CA1570024504
2006	EDWARDS AIR FORCE BASE	06	ROD	09	CA	CA1570024504

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Institutional Controls, continued						
2008	FORT ORD	12	ROD	09	CA	CA7210020676
2006	FRONTIER FERTILIZER	01	ROD	09	CA	CAD071530380
2008	LAVA CAP MINE	02	ROD	09	CA	CAD983618893
2007	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	ROD-A	09	CA	CA2890090002
2008	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	ROD	09	CA	CA2890090002
2007	MCCLELLAN AIR FORCE BASE (GROUND WATER CONTAMINATION)	01	ROD	09	CA	CA4570024337
2005	PEMACO MAYWOOD	01	ROD	09	CA	CAD980737092
2007	SOLA OPTICAL USA, INC.	01	ROD-A	09	CA	CAD981171523
2005	FORT RICHARDSON (USARMY)	05	ROD	10	AK	AK6214522157
2008	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	16	ROD	10	ID	ID4890008952
2007	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	28	ROD	10	ID	ID4890008952
2006	REYNOLDS METALS COMPANY	02	ROD	10	OR	ORD009412677
2005	TAYLOR LUMBER AND TREATING	01	ROD	10	OR	ORD009042532
2006	BOOMSNUB/AIRCO	01	ESD	10	WA	WAD009624453
2008	HANFORD 200-AREA (USDOE)	45	ROD	10	WA	WA1890090078
2008	MOSES LAKE WELLFIELD CONTAMINATION	01	ROD	10	WA	WAD988466355
2008	NAVAL AIR STATION, WHIDBEY ISLAND (AULT FIELD)	01	ESD	10	WA	WA5170090059
2005	PUGET SOUND NAVAL SHIPYARD COMPLEX	06	ROD	10	WA	WA2170023418
MNA of Groundwater						
2005	SOLVENTS RECOVERY SERVICE OF NEW ENGLAND	03	ROD	01	CT	CTD009717604
2008	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	09	ESD	01	MA	MA2570024487
2007	SUTTON BROOK DISPOSAL AREA	01	ROD	01	MA	MAD980520696
2005	W.R. GRACE & CO., INC. (ACTON PLANT)	03	ROD	01	MA	MAD001002252
2006	WEST SITE/HOWS CORNERS	02	ROD	01	ME	MED985466168
2007	WINTHROP LANDFILL	01	ESD	01	ME	MED980504435
2005	TROY MILLS LANDFILL	01	ROD	01	NH	NHD980520217
2006	WEST KINGSTON TOWN DUMP/URI DISPOSAL AREA	01	ROD	01	RI	RID981063993
2005	DOVER MUNICIPAL WELL 4	02	ROD	02	NJ	NJD980654131
2008	EMMELL'S SEPTIC LANDFILL	02	ROD	02	NJ	NJD980772727
2007	PICATINNY ARSENAL (USARMY) - Area E Groundwater/Site 22	02	ROD	02	NJ	NJ3210020704

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
MNA of Groundwater, continued						
2006	POHATCONG VALLEY GROUND WATER CONTAMINATION	01	ROD	02	NJ	NJD981179047
2006	PUCHACK WELL FIELD	01	ROD	02	NJ	NJD981084767
2008	WALDICK AEROSPACE DEVICES, INC.	02	ROD-A	02	NJ	NJD054981337
2005	BROOKHAVEN NATIONAL LABORATORY (USDOE)	03	ESD	02	NY	NY7890008975
2007	BROOKHAVEN NATIONAL LABORATORY (USDOE)	08	ROD	02	NY	NY7890008975
2005	LITTLE VALLEY	02	ROD	02	NY	NY0001233634
2008	MOHONK ROAD INDUSTRIAL PLANT	01	ROD-A	02	NY	NYD986950012
2007	PETER COOPER CORPORATION (MARKHAMS)	01	ROD	02	NY	NYD980592547
2006	DOVER AIR FORCE BASE	15	ROD	03	DE	DE8570024010
2006	DOVER AIR FORCE BASE	16	ROD	03	DE	DE8570024010
2006	DOVER AIR FORCE BASE	17	ROD	03	DE	DE8570024010
2006	DOVER AIR FORCE BASE	19	ROD	03	DE	DE8570024010
2005	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	11	ESD	03	MD	MD2210020036
2006	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	06	ROD	03	MD	MD3210021355
2007	INDIAN HEAD NAVAL SURFACE WARFARE CENTER	01	ROD	03	MD	MD7170024684
2006	LETTERKENNY ARMY DEPOT (SE AREA)	10	ROD	03	PA	PA6213820503
2007	UGI COLUMBIA GAS PLANT	01	ROD	03	PA	PAD980539126
2008	ATLANTIC WOOD INDUSTRIES, INC.	02	ROD	03	VA	VAD990710410
2007	DEFENSE GENERAL SUPPLY CENTER (DLA)	08	ROD	03	VA	VA3971520751
2007	NAVAL AMPHIBIOUS BASE LITTLE CREEK	07	ROD	03	VA	VA5170022482
2008	NAVAL SURFACE WARFARE CENTER - DAHLGREN	19	ROD	03	VA	VA7170024684
2006	ALLEGANY BALLISTICS LABORATORY (USNAVY)	02	ROD	03	WV	WV0170023691
2007	FIKE CHEMICAL, INC.	04	ROD-A	03	WV	WVD047989207
2006	AMERICAN BRASS INC.	01	ROD	04	AL	ALD981868466
2006	ANNISTON ARMY DEPOT (SOUTHEAST INDUSTRIAL AREA)	03	ROD	04	AL	AL3210020027
2005	COLEMAN-EVANS WOOD PRESERVING CO.	01	ESD	04	FL	FLD991279894
2008	ESCAMBIA WOOD - PENSACOLA	02	ROD	04	FL	FLD008168346
2007	JACKSONVILLE NAVAL AIR STATION	03	ROD	04	FL	FL6170024412
2005	JACKSONVILLE NAVAL AIR STATION	05	ROD	04	FL	FL6170024412
2007	JACKSONVILLE NAVAL AIR STATION	06	ROD	04	FL	FL6170024412

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MNA of Groundwater, continued						
2005	JACKSONVILLE NAVAL AIR STATION	07	ROD	04	FL	FL6170024412
2008	JACKSONVILLE NAVAL AIR STATION	08	ROD	04	FL	FL6170024412
2008	MRI CORP (TAMPA)	02	ROD	04	FL	FLD088787585
2005	PEAK OIL CO./BAY DRUM CO.	02	ROD-A	04	FL	FLD004091807
2006	TOWER CHEMICAL CO.	03	ROD	04	FL	FLD004065546
2006	UNITED METALS, INC.	01	ROD	04	FL	FLD098924038
2005	USN AIR STATION CECIL FIELD	09	ROD	04	FL	FL5170022474
2008	USN AIR STATION CECIL FIELD	09	ROD	04	FL	FL5170022474
2005	USN AIR STATION CECIL FIELD	10	ROD	04	FL	FL5170022474
2007	PEACH ORCHARD RD PCE GROUNDWATER PLUME SITE	01	ROD	04	GA	GAN000407449
2007	PICAYUNE WOOD TREATING SITE	00	ROD	04	MS	MSD065490930
2005	CAMP LEJEUNE MILITARY RES. (USNAVY)	07	ROD	04	NC	NC6170022580
2007	CAMP LEJEUNE MILITARY RES. (USNAVY)	17	ROD	04	NC	NC6170022580
2005	CAROLINA TRANSFORMER CO.	01	ROD-A	04	NC	NCD003188844
2005	CHERRY POINT MARINE CORPS AIR STATION	04	ROD	04	NC	NC1170027261
2006	CHERRY POINT MARINE CORPS AIR STATION	05	ROD	04	NC	NC1170027261
2006	CHERRY POINT MARINE CORPS AIR STATION	06	ROD	04	NC	NC1170027261
2005	CHERRY POINT MARINE CORPS AIR STATION	13	ROD	04	NC	NC1170027261
2006	FCX, INC. (STATESVILLE PLANT)	01	ROD-A	04	NC	NCD095458527
2005	FCX, INC. (WASHINGTON PLANT)	02	ROD-A	04	NC	NCD981475932
2005	SAVANNAH RIVER SITE (USDOE)	24	ROD	04	SC	SCI890008989
2008	SAVANNAH RIVER SITE (USDOE)	31	ROD	04	SC	SCI890008989
2007	SAVANNAH RIVER SITE (USDOE)	77	ROD	04	SC	SCI890008989
2007	SANGAMO ELECTRIC DUMP/CRAB ORCHARD NATIONAL WILDLIFE REFUGE (USDOI)	02	ROD-A	05	IL	IL8143609487
2005	K&L AVENUE LANDFILL	01	ROD-A	05	MI	MID980506463
2007	SPARTAN CHEMICAL CO.	00	ROD	05	MI	MID079300125
2006	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	09	ROD-A	05	MN	MN7213820908
2005	NEASE CHEMICAL	02	ROD	05	OH	OHD980610018
2006	LEMBERGER LANDFILL, INC.	01	ESD	05	WI	WID980901243

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
MNA of Groundwater, continued						
2006	LEMBERGER TRANSPORT & RECYCLING	01	ESD	05	WI	WID056247208
2007	MASTER DISPOSAL SERVICE LANDFILL	02	ROD	05	WI	WID980820070
2006	MIDLAND PRODUCTS	01	ROD-A	06	AR	ARD980745665
2005	OUACHITA NEVADA WOOD TREATER	01	ROD	06	AR	ARD042755231
2007	LOUISIANA ARMY AMMUNITION PLANT	05	ROD	06	LA	LA0213820533
2006	FRUIT AVENUE PLUME	01	ESD	06	NM	NMD986668911
2006	GRANTS CHLORINATED SOLVENTS	00	ROD	06	NM	NM0007271768
2008	MCGAFFEY AND MAIN GROUNDWATER PLUME	00	ROD	06	NM	NM0000605386
2007	AIR FORCE PLANT #4 (GENERAL DYNAMICS)	01	ESD	06	TX	TX7572024605
2006	GARLAND CREOSOTING	01	ROD	06	TX	TXD007330053
2006	HART CREOSOTING COMPANY	01	ROD	06	TX	TXD050299577
2006	JASPER CREOSOTING COMPANY INC.	01	ROD	06	TX	TXD008096240
2006	LONGHORN ARMY AMMUNITION PLANT	00	ROD	06	TX	TX6213820529
2005	IOWA ARMY AMMUNITION PLANT	03	ROD	07	IA	IA7213820445
2005	RAILROAD AVENUE GROUNDWATER CONTAMINATION	01	ROD	07	IA	IA0001610963
2006	RAILROAD AVENUE GROUNDWATER CONTAMINATION	02	ROD	07	IA	IA0001610963
2005	CHEMICAL COMMODITIES, INC.	01	ROD	07	KS	KSD031349624
2008	FORT RILEY	03	ROD	07	KS	KS6214020756
2005	FORT RILEY	04	ROD	07	KS	KS6214020756
2006	FORT RILEY	05	ROD	07	KS	KS6214020756
2007	WRIGHT GROUND WATER CONTAMINATION	01	ROD	07	KS	KSD984985929
2008	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	01	ROD	07	MO	MO3213890012
2007	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	02	ROD	07	MO	MO3213890012
2007	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	03	ROD	07	MO	MO3213890012
2005	MISSOURI ELECTRIC WORKS	02	ROD	07	MO	MOD980965982
2006	HASTINGS GROUND WATER CONTAMINATION	02	ROD	07	NE	NED980862668
2006	PARKVIEW WELL	01	ROD	07	NE	NEN000704456
2005	MILLTOWN RESERVOIR SEDIMENTS	02	ROD	08	MT	MTD980717565
2006	HILL AIR FORCE BASE	05	ROD	08	UT	UT0571724350
2005	HILL AIR FORCE BASE	08	ROD	08	UT	UT0571724350

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
MNA of Groundwater, continued						
2007	F.E. WARREN AIR FORCE BASE	02	ROD-A	08	WY	WY5571924179
2006	F.E. WARREN AIR FORCE BASE	02	ROD	08	WY	WY5571924179
2005	F.E. WARREN AIR FORCE BASE	11	ROD-A	08	WY	WY5571924179
2005	APACHE POWDER CO.	01	ROD-A	09	AZ	AZD008399263
2007	ALAMEDA NAVAL AIR STATION	01	ROD	09	CA	CA2170023236
2005	BECKMAN INSTRUMENTS (PORTERVILLE PLANT)	01	ROD-A	09	CA	CAD048645444
2007	BROWN & BRYANT, INC. (ARVIN PLANT)	02	ROD	09	CA	CAD052384021
2008	FORT ORD	12	ROD	09	CA	CA7210020676
2007	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	ROD-A	09	CA	CA2890090002
2008	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	ROD	09	CA	CA2890090002
2005	PEMACO MAYWOOD	01	ROD	09	CA	CAD980737092
2007	SOLA OPTICAL USA, INC.	01	ROD-A	09	CA	CAD981171523
2007	VALLEY WOOD PRESERVING, INC.	01	ROD-A	09	CA	CAD063020143
2005	FORT RICHARDSON (USARMY)	05	ROD	10	AK	AK6214522157
2008	HANFORD 200-AREA (USDOE)	45	ROD	10	WA	WA1890090078
2006	MIDNITE MINE	01	ROD	10	WA	WAD980978753
Monitoring						
2005	DURHAM MEADOWS	01	ROD	01	CT	CTD001452093
2007	NEW LONDON SUBMARINE BASE	02	ROD	01	CT	CTD980906515
2005	NEW LONDON SUBMARINE BASE	09	ROD	01	CT	CTD980906515
2008	NEW LONDON SUBMARINE BASE	09	ROD	01	CT	CTD980906515
2006	OLD SOUTHTON LANDFILL	02	ROD	01	CT	CTD980670806
2005	SOLVENTS RECOVERY SERVICE OF NEW ENGLAND	03	ROD	01	CT	CTD009717604
2008	BLACKBURN & UNION PRIVILEGES	01	ROD	01	MA	MAD982191363
2007	HANSCOM FIELD/HANSCOM AIR FORCE BASE	01	ROD	01	MA	MA8570024424
2005	HATHEWAY & PATTERSON	01	ROD	01	MA	MAD001060805
2006	INDUSTRI-PLEX	02	ROD	01	MA	MAD076580950
2006	NYANZA CHEMICAL WASTE DUMP	02	ESD	01	MA	MAD990685422
2006	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	01	ROD	01	MA	MA2570024487
2006	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	13	ROD	01	MA	MA2570024487

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Monitoring, continued						
2006	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	24	ROD	01	MA	MA2570024487
2007	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	25	ROD	01	MA	MA2570024487
2007	SOUTH WEYMOUTH NAVAL AIR STATION	01	ROD	01	MA	MA2170022022
2008	SOUTH WEYMOUTH NAVAL AIR STATION	07	ROD	01	MA	MA2170022022
2006	SOUTH WEYMOUTH NAVAL AIR STATION	10	ROD	01	MA	MA2170022022
2007	SUTTON BROOK DISPOSAL AREA	01	ROD	01	MA	MAD980520696
2005	W.R. GRACE & CO., INC. (ACTON PLANT)	03	ROD	01	MA	MAD001002252
2006	WELLS G&H	03	ROD	01	MA	MAD980732168
2006	EASTLAND WOOLEN MILL	01	ROD-A	01	ME	MED980915474
2006	WEST SITE/HOWS CORNERS	02	ROD	01	ME	MED985466168
2007	WINTHROP LANDFILL	01	ESD	01	ME	MED980504435
2007	OTTATI & GOSS/KINGSTON STEEL DRUM	01	ROD-A	01	NH	NHD990717647
2005	TROY MILLS LANDFILL	01	ROD	01	NH	NHD980520217
2006	WEST KINGSTON TOWN DUMP/URI DISPOSAL AREA	01	ROD	01	RI	RID981063993
2006	ELIZABETH MINE	01	ROD	01	VT	VTD988366621
2005	BOG CREEK FARM	02	ROD-A	02	NJ	NJD063157150
2008	BRICK TOWNSHIP LANDFILL	01	ROD	02	NJ	NJD980505176
2005	DOVER MUNICIPAL WELL 4	02	ROD	02	NJ	NJD980654131
2006	ICELAND COIN LAUNDRY AREA GW PLUME	01	ROD	02	NJ	NJ0001360882
2005	MARTIN AARON, INC.	01	ROD	02	NJ	NJD014623854
2005	MIDDLESEX SAMPLING PLANT (USDOE)	01	ROD	02	NJ	NJ0890090012
2005	MONITOR DEVICES, INC./INTERCIRCUITS, INC.	01	ROD	02	NJ	NJD980529408
2005	MYERS PROPERTY	02	ROD	02	NJ	NJD980654198
2006	NAVAL WEAPONS STATION EARLE (SITE A)	06	ROD	02	NJ	NJ0170022172
2007	NAVAL WEAPONS STATION EARLE (SITE A)	07	ROD	02	NJ	NJ0170022172
2005	NAVAL WEAPONS STATION EARLE (SITE A)	08	ROD	02	NJ	NJ0170022172
2007	NAVAL WEAPONS STATION EARLE (SITE A)	09	ROD	02	NJ	NJ0170022172
2005	PICATINNY ARSENAL (USARMY)	02	ROD	02	NJ	NJ3210020704
2005	PICATINNY ARSENAL (USARMY)	03	ROD	02	NJ	NJ3210020704
2007	PICATINNY ARSENAL (USARMY) - Area E Groundwater/Site 22	02	ROD	02	NJ	NJ3210020704

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Monitoring, continued						
2006	POHATCONG VALLEY GROUND WATER CONTAMINATION	01	ROD	02	NJ	NJD981179047
2006	PUCHACK WELL FIELD	01	ROD	02	NJ	NJD981084767
2006	U.S. RADIUM CORP.	03	ROD	02	NJ	NJD980654172
2007	VENTRON/VELSICOL	01	ROD	02	NJ	NJD980529879
2008	WALDICK AEROSPACE DEVICES, INC.	02	ROD-A	02	NJ	NJD054981337
2007	BROOKHAVEN NATIONAL LABORATORY (USDOE)	08	ROD	02	NY	NY7890008975
2008	COMPUTER CIRCUITS	01	ROD	02	NY	NYD125499673
2005	HERTEL LANDFILL	01	ROD-A	02	NY	NYD980780779
2006	HITEMAN LEATHER	01	ROD	02	NY	NYD981560915
2006	LAWRENCE AVIATION INDUSTRIES, INC.	01	ROD	02	NY	NYD002041531
2005	LITTLE VALLEY	02	ROD	02	NY	NY0001233634
2008	MERCURY REFINING, INC.	01	ROD	02	NY	NYD048148175
2008	MOHONK ROAD INDUSTRIAL PLANT	01	ROD-A	02	NY	NYD986950012
2007	NEPERA CHEMICAL CO., INC.	01	ROD	02	NY	NYD000511451
2007	OLD ROOSEVELT FIELD CONTAMINATED GW AREA	01	ROD	02	NY	NYSFN0204234
2007	ONONDAGA LAKE	08	ROD	02	NY	NYD986913580
2007	PETER COOPER CORPORATION (MARKHAMS)	01	ROD	02	NY	NYD980592547
2008	PLATTSBURGH AIR FORCE BASE	19	ROD	02	NY	NY4571924774
2005	SENECA ARMY DEPOT	01	ROD	02	NY	NY0213820830
2006	SENECA ARMY DEPOT	04	ROD	02	NY	NY0213820830
2006	DOVER AIR FORCE BASE	15	ROD	03	DE	DE8570024010
2006	DOVER AIR FORCE BASE	16	ROD	03	DE	DE8570024010
2006	DOVER AIR FORCE BASE	17	ROD	03	DE	DE8570024010
2006	DOVER AIR FORCE BASE	19	ROD	03	DE	DE8570024010
2006	DOVER AIR FORCE BASE	24	ROD	03	DE	DE8570024010
2005	KOPPERS CO., INC. (NEWPORT PLANT)	01	ROD	03	DE	DED980552244
2007	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	35	ROD	03	MD	MD2210020036
2007	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	40	ROD	03	MD	MD2210020036
2006	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	06	ROD	03	MD	MD3210021355
2006	ANDREWS AIR FORCE BASE	03	ROD	03	MD	MD0570024000

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Monitoring, continued						
2005	ANDREWS AIR FORCE BASE	07	ROD	03	MD	MD0570024000
2007	ANDREWS AIR FORCE BASE	11	ROD	03	MD	MD0570024000
2006	BRANDYWINE DRMO	01	ROD	03	MD	MD9570024803
2005	INDIAN HEAD NAVAL SURFACE WARFARE CENTER	05	ROD	03	MD	MD7170024684
2006	ORDNANCE PRODUCTS, INC.	01	ROD	03	MD	MDD982364341
2007	BRESLUBE-PENN, INC.	01	ROD	03	PA	PAD089667695
2008	CROSSLEY FARM	02	ROD-A	03	PA	PAD981740061
2006	FOOTE MINERAL CO.	01	ROD	03	PA	PAD077087989
2006	LETTERKENNY ARMY DEPOT (SE AREA)	10	ROD	03	PA	PA6213820503
2005	NAVY SHIPS PARTS CONTROL CENTER	04	ROD	03	PA	PA3170022104
2007	SHARON STEEL CORP (FARRELL WORKS DISPOSAL AREA)	01	ROD	03	PA	PAD001933175
2007	UGI COLUMBIA GAS PLANT	01	ROD	03	PA	PAD980539126
2006	WALSH LANDFILL	04	ROD	03	PA	PAD980829527
2008	WILLOW GROVE NAVAL AIR AND AIR RESERVE STATION	03	ROD	03	PA	PAD987277837
2008	ATLANTIC WOOD INDUSTRIES, INC.	02	ROD	03	VA	VAD990710410
2007	DEFENSE GENERAL SUPPLY CENTER (DLA)	08	ROD	03	VA	VA3971520751
2006	DEFENSE GENERAL SUPPLY CENTER (DLA)	12	ROD	03	VA	VA3971520751
2008	MARINE CORPS COMBAT DEVELOPMENT COMMAND	04	ROD	03	VA	VA1170024722
2008	MARINE CORPS COMBAT DEVELOPMENT COMMAND	19	ROD	03	VA	VA1170024722
2007	NAVAL AMPHIBIOUS BASE LITTLE CREEK	05	ROD	03	VA	VA5170022482
2005	NAVAL AMPHIBIOUS BASE LITTLE CREEK	06	ROD	03	VA	VA5170022482
2007	NAVAL AMPHIBIOUS BASE LITTLE CREEK	07	ROD	03	VA	VA5170022482
2008	NAVAL SURFACE WARFARE CENTER - DAHLGREN	19	ROD	03	VA	VA7170024684
2006	ALLEGANY BALLISTICS LABORATORY (USNAVY)	02	ROD	03	WV	WV0170023691
2005	ALLEGANY BALLISTICS LABORATORY (USNAVY)	05	ROD	03	WV	WV0170023691
2006	AMERICAN BRASS INC.	01	ROD	04	AL	ALD981868466
2006	ANNISTON ARMY DEPOT (SOUTHEAST INDUSTRIAL AREA)	03	ROD	04	AL	AL3210020027
2007	USARMY/NASA REDSTONE ARSENAL	05	ROD	04	AL	AL7210020742
2007	USARMY/NASA REDSTONE ARSENAL	06	ROD	04	AL	AL7210020742
2006	ESCAMBIA WOOD - PENSACOLA	01	ROD	04	FL	FLD008168346

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Monitoring, continued						
2006	HOMESTEAD AIR FORCE BASE	11	ROD	04	FL	FL7570024037
2006	HOMESTEAD AIR FORCE BASE	15	ROD	04	FL	FL7570024037
2006	HOMESTEAD AIR FORCE BASE	20	ROD	04	FL	FL7570024037
2006	HOMESTEAD AIR FORCE BASE	21	ROD	04	FL	FL7570024037
2006	HOMESTEAD AIR FORCE BASE	30	ROD	04	FL	FL7570024037
2006	HOMESTEAD AIR FORCE BASE	31	ROD	04	FL	FL7570024037
2007	JACKSONVILLE NAVAL AIR STATION	03	ROD	04	FL	FL6170024412
2005	JACKSONVILLE NAVAL AIR STATION	05	ROD	04	FL	FL6170024412
2007	JACKSONVILLE NAVAL AIR STATION	06	ROD	04	FL	FL6170024412
2005	JACKSONVILLE NAVAL AIR STATION	07	ROD	04	FL	FL6170024412
2008	JACKSONVILLE NAVAL AIR STATION	08	ROD	04	FL	FL6170024412
2008	MRI CORP (TAMPA)	02	ROD	04	FL	FLD088787585
2005	PEAK OIL CO./BAY DRUM CO.	02	ROD-A	04	FL	FLD004091807
2008	PENSACOLA NAVAL AIR STATION	02	ROD	04	FL	FL9170024567
2007	PENSACOLA NAVAL AIR STATION	11	ROD	04	FL	FL9170024567
2007	PENSACOLA NAVAL AIR STATION	13	ROD	04	FL	FL9170024567
2006	STAUFFER CHEMICAL CO (TAMPA)	01	ROD-A	04	FL	FLD004092532
2006	TOWER CHEMICAL CO.	03	ROD	04	FL	FLD004065546
2006	UNITED METALS, INC.	01	ROD	04	FL	FLD098924038
2005	USN AIR STATION CECIL FIELD	09	ROD	04	FL	FL5170022474
2008	USN AIR STATION CECIL FIELD	09	ROD	04	FL	FL5170022474
2005	USN AIR STATION CECIL FIELD	10	ROD	04	FL	FL5170022474
2007	PEACH ORCHARD RD PCE GROUNDWATER PLUME SITE	01	ROD	04	GA	GAN000407449
2005	PADUCAH GASEOUS DIFFUSION PLANT (USDOE)	19	ROD	04	KY	KY8890008982
2007	AMERICAN CREOSOTE WORKS INC	01	ROD	04	MS	MSD004006995
2007	PICAYUNE WOOD TREATING SITE	00	ROD	04	MS	MSD065490930
2005	CAMP LEJEUNE MILITARY RES. (USNAVY)	07	ROD	04	NC	NC6170022580
2007	CAMP LEJEUNE MILITARY RES. (USNAVY)	17	ROD	04	NC	NC6170022580
2005	CAROLINA TRANSFORMER CO.	01	ROD-A	04	NC	NCD003188844
2005	CHERRY POINT MARINE CORPS AIR STATION	04	ROD	04	NC	NC1170027261

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Monitoring, continued						
2006	CHERRY POINT MARINE CORPS AIR STATION	05	ROD	04	NC	NCI170027261
2006	CHERRY POINT MARINE CORPS AIR STATION	06	ROD	04	NC	NCI170027261
2005	CHERRY POINT MARINE CORPS AIR STATION	13	ROD	04	NC	NCI170027261
2006	FCX, INC. (STATESVILLE PLANT)	01	ROD-A	04	NC	NCD095458527
2005	FCX, INC. (WASHINGTON PLANT)	02	ROD-A	04	NC	NCD981475932
2007	REASOR CHEMICAL COMPANY	01	ROD-A	04	NC	NCD986187094
2008	PALMETTO WOOD PRESERVING	01	ROD-A	04	SC	SCD003362217
2006	PARRIS ISLAND MARINE CORPS RECRUIT DEPOT	01	ROD	04	SC	SC6170022762
2005	SAVANNAH RIVER SITE (USDOE)	24	ROD	04	SC	SCI890008989
2005	SAVANNAH RIVER SITE (USDOE)	67	ROD	04	SC	SCI890008989
2007	SAVANNAH RIVER SITE (USDOE)	77	ROD	04	SC	SCI890008989
2006	OAK RIDGE RESERVATION (USDOE)	50	ROD	04	TN	TNI890090003
2005	PARSONS CASKET HARDWARE CO.	02	ROD	05	IL	ILD005252432
2006	LEMON LANE LANDFILL	01	ROD-A	05	IN	IND980794341
2006	ALLIED PAPER, INC./PORTAGE CREEK/KALAMAZOO RIVER	02	ROD	05	MI	MID006007306
2005	FOREST WASTE PRODUCTS	02	ROD-A	05	MI	MID980410740
2008	GRAND TRAVERSE OVERALL SUPPLY CO.	02	ROD	05	MI	MID017418559
2005	K&L AVENUE LANDFILL	01	ROD-A	05	MI	MID980506463
2008	NORTH BRONSON INDUSTRIAL SUBAREAS	02	ROD	05	MI	MIN000508192
2005	FRIDLEY COMMONS PARK WELL FIELD	01	ROD	05	MN	MND985701309
2007	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	07	ROD-A	05	MN	MN7213820908
2006	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	09	ROD-A	05	MN	MN7213820908
2005	NEASE CHEMICAL	02	ROD	05	OH	OHD980610018
2007	MASTER DISPOSAL SERVICE LANDFILL	02	ROD	05	WI	WID980820070
2006	MIDLAND PRODUCTS	01	ROD-A	06	AR	ARD980745665
2005	OUACHITA NEVADA WOOD TREATER	01	ROD	06	AR	ARD042755231
2007	LOUISIANA ARMY AMMUNITION PLANT	05	ROD	06	LA	LA0213820533
2006	GRANTS CHLORINATED SOLVENTS	00	ROD	06	NM	NM0007271768
2007	GRIGGS & WALNUT GROUND WATER PLUME	01	ROD	06	NM	NM0002271286
2008	MCGAFFEY AND MAIN GROUNDWATER PLUME	00	ROD	06	NM	NM0000605386

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Monitoring, continued						
2008	HUDSON REFINERY	01	ROD	06	OK	OKD082471988
2006	GARLAND CREOSOTING	01	ROD	06	TX	TXD007330053
2006	HART CREOSOTING COMPANY	01	ROD	06	TX	TXD050299577
2006	JASPER CREOSOTING COMPANY INC.	01	ROD	06	TX	TXD008096240
2006	LONGHORN ARMY AMMUNITION PLANT	00	ROD	06	TX	TX6213820529
2006	PETRO-CHEMICAL SYSTEMS, INC. (TURTLE BAYOU)	02	ROD-A	06	TX	TXD980873350
2008	STATE ROAD 114 GROUNDWATER PLUME	00	ROD	06	TX	TXSFN0605177
2005	IOWA ARMY AMMUNITION PLANT	03	ROD	07	IA	IA7213820445
2008	IOWA ARMY AMMUNITION PLANT	04	ROD	07	IA	IA7213820445
2005	RAILROAD AVENUE GROUNDWATER CONTAMINATION	01	ROD	07	IA	IA0001610963
2006	RAILROAD AVENUE GROUNDWATER CONTAMINATION	02	ROD	07	IA	IA0001610963
2005	CHEMICAL COMMODITIES, INC.	01	ROD	07	KS	KSD031349624
2006	CHEROKEE COUNTY	03	ROD-A	07	KS	KSD980741862
2006	CHEROKEE COUNTY	04	ROD-A	07	KS	KSD980741862
2008	FORT RILEY	03	ROD	07	KS	KS6214020756
2005	FORT RILEY	04	ROD	07	KS	KS6214020756
2006	FORT RILEY	05	ROD	07	KS	KS6214020756
2007	OBEE ROAD	02	ROD	07	KS	KSD980631766
2005	PESTER REFINERY CO.	01	ROD-A	07	KS	KSD000829846
2007	WRIGHT GROUND WATER CONTAMINATION	01	ROD	07	KS	KSD984985929
2008	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	01	ROD	07	MO	MO3213890012
2007	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	02	ROD	07	MO	MO3213890012
2007	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	03	ROD	07	MO	MO3213890012
2005	MISSOURI ELECTRIC WORKS	02	ROD	07	MO	MOD980965982
2007	OAK GROVE VILLAGE WELL	01	ROD	07	MO	MOD981717036
2007	RIVERFRONT	05	ROD	07	MO	MOD981720246
2005	ST. LOUIS AIRPORT/HAZELWOOD INTERIM STORAGE/FUTURA COATINGS CO.	01	ROD	07	MO	MOD980633176
2005	WELDON SPRING QUARRY/PLANT/PITS (USDOE/ARMY)	06	ESD	07	MO	MO3210090004
2008	WESTLAKE LANDFILL	01	ROD	07	MO	MOD079900932
2008	WESTLAKE LANDFILL	02	ROD	07	MO	MOD079900932

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Monitoring, continued						
2006	HASTINGS GROUND WATER CONTAMINATION	02	ROD	07	NE	NED980862668
2006	OGALLALA GROUND WATER CONTAMINATION	02	ROD	07	NE	NED986369247
2006	PARKVIEW WELL	01	ROD	07	NE	NEN000704456
2007	PARKVIEW WELL	02	ROD	07	NE	NEN000704456
2005	CALIFORNIA GULCH	11	ROD	08	CO	COD980717938
2008	CAPTAIN JACK MILL	01	ROD	08	CO	COD981551427
2006	ROCKY FLATS PLANT (USDOE)	00	ROD	08	CO	C07890010526
2005	LOCKWOOD SOLVENT GROUND WATER PLUME	01	ROD	08	MT	MT0007623052
2005	MILLTOWN RESERVOIR SEDIMENTS	02	ROD	08	MT	MTD980717565
2006	SILVER BOW CREEK/BUTTE AREA	08	ROD	08	MT	MTD980502777
2006	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	01	ROD	08	UT	UT0001119296
2007	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	02	ROD	08	UT	UT0001119296
2006	HILL AIR FORCE BASE	05	ROD	08	UT	UT0571724350
2005	HILL AIR FORCE BASE	08	ROD	08	UT	UT0571724350
2006	F.E. WARREN AIR FORCE BASE	02	ROD	08	WY	WY5571924179
2005	F.E. WARREN AIR FORCE BASE	11	ROD-A	08	WY	WY5571924179
2005	APACHE POWDER CO.	01	ROD-A	09	AZ	AZD008399263
2007	ALAMEDA NAVAL AIR STATION	01	ROD	09	CA	CA2170023236
2006	ALAMEDA NAVAL AIR STATION	06	ROD	09	CA	CA2170023236
2007	ALAMEDA NAVAL AIR STATION	11	ROD	09	CA	CA2170023236
2007	ALAMEDA NAVAL AIR STATION	14	ROD	09	CA	CA2170023236
2008	ALAMEDA NAVAL AIR STATION	15	ROD	09	CA	CA2170023236
2005	BECKMAN INSTRUMENTS (PORTERVILLE PLANT)	01	ROD-A	09	CA	CAD048645444
2007	BROWN & BRYANT, INC. (ARVIN PLANT)	02	ROD	09	CA	CAD052384021
2006	CASTLE AIR FORCE BASE (6 AREAS)	01	ROD	09	CA	CA3570024551
2005	CASTLE AIR FORCE BASE (6 AREAS)	04	ROD	09	CA	CA3570024551
2007	EDWARDS AIR FORCE BASE	04	ROD	09	CA	CA1570024504
2006	EDWARDS AIR FORCE BASE	06	ROD	09	CA	CA1570024504
2008	EL TORO MARINE CORPS AIR STATION	05	ROD	09	CA	CA6170023208
2008	FORT ORD	12	ROD	09	CA	CA7210020676

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Monitoring, continued						
2006	FRONTIER FERTILIZER	01	ROD	09	CA	CAD071530380
2008	LAVA CAP MINE	02	ROD	09	CA	CAD983618893
2007	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	ROD-A	09	CA	CA2890090002
2008	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	ROD	09	CA	CA2890090002
2007	MCCLELLAN AIR FORCE BASE (GROUND WATER CONTAMINATION)	01	ROD	09	CA	CA4570024337
2005	PEMACO MAYWOOD	01	ROD	09	CA	CAD980737092
2006	PURITY OIL SALES, INC.	02	ROD-A	09	CA	CAD980736151
2007	SOLA OPTICAL USA, INC.	01	ROD-A	09	CA	CAD981171523
2007	VALLEY WOOD PRESERVING, INC.	01	ROD-A	09	CA	CAD063020143
2005	FORT RICHARDSON (USARMY)	05	ROD	10	AK	AK6214522157
2008	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	16	ROD	10	ID	ID4890008952
2006	REYNOLDS METALS COMPANY	02	ROD	10	OR	ORD009412677
2008	HANFORD 200-AREA (USDOE)	45	ROD	10	WA	WA1890090078
2006	MIDNITE MINE	01	ROD	10	WA	WAD980978753
2008	MOSES LAKE WELLFIELD CONTAMINATION	01	ROD	10	WA	WAD988466355
2005	PUGET SOUND NAVAL SHIPYARD COMPLEX	06	ROD	10	WA	WA2170023418
Multi-Phase Extraction						
2005	PEMACO MAYWOOD	01	ROD	09	CA	CAD980737092
Permeable Reactive Barrier						
2005	SENECA ARMY DEPOT	01	ROD	02	NY	NY0213820830
2006	ALLEGANY BALLISTICS LABORATORY (USNAVY)	02	ROD	03	WV	WV0170023691
2007	TOWNSEND SAW CHAIN CO.	01	ESD	04	SC	SCD980558050
2006	ENVIROCHEM CORP.	01	ESD	05	IN	IND084259951
2005	NEASE CHEMICAL	02	ROD	05	OH	OHD980610018
2005	LOCKWOOD SOLVENT GROUND WATER PLUME	01	ROD	08	MT	MT0007623052
2008	HILL AIR FORCE BASE	12	ROD	08	UT	UT0571724350
2006	F.E. WARREN AIR FORCE BASE	02	ROD	08	WY	WY5571924179
Phytoremediation						
2006	BRIDGEPORT RENTAL & OIL SERVICES	02	ROD	02	NJ	NJD053292652
2006	RYELAND ROAD ARSENIC SITE	01	ROD	03	PA	PAD981033459

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Phytoremediation, continued						
2007	SANGAMO ELECTRIC DUMP/CRAB ORCHARD NATIONAL WILDLIFE REFUGE (USDOI)	02	ROD-A	05	IL	IL8143609487
Pump and Treat						
2005	DURHAM MEADOWS	01	ROD	01	CT	CTD001452093
2005	SOLVENTS RECOVERY SERVICE OF NEW ENGLAND	03	ROD	01	CT	CTD009717604
2008	BLACKBURN & UNION PRIVILEGES	01	ROD	01	MA	MAD982191363
2005	FORT DEVENS	01	ESD	01	MA	MA7210025154
2007	HANSCOM FIELD/HANSCOM AIR FORCE BASE	01	ROD	01	MA	MA8570024424
2006	INDUSTRI-PLEX	02	ROD	01	MA	MAD076580950
2006	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	01	ROD	01	MA	MA2570024487
2007	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	16	ROD	01	MA	MA2570024487
2007	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	25	ROD	01	MA	MA2570024487
2007	SUTTON BROOK DISPOSAL AREA	01	ROD	01	MA	MAD980520696
2005	W.R. GRACE & CO., INC. (ACTON PLANT)	03	ROD	01	MA	MAD001002252
2005	BOG CREEK FARM	02	ROD-A	02	NJ	NJD063157150
2006	BRIDGEPORT RENTAL & OIL SERVICES	02	ROD	02	NJ	NJD053292652
2008	EMMELL'S SEPTIC LANDFILL	02	ROD	02	NJ	NJD980772727
2005	MARTIN AARON, INC.	01	ROD	02	NJ	NJD014623854
2005	MIDDLESEX SAMPLING PLANT (USDOE)	01	ROD	02	NJ	NJ0890090012
2005	MONITOR DEVICES, INC./INTERCIRCUITS, INC.	01	ROD	02	NJ	NJD980529408
2005	MYERS PROPERTY	02	ROD	02	NJ	NJD980654198
2006	POHATCONG VALLEY GROUND WATER CONTAMINATION	01	ROD	02	NJ	NJD981179047
2005	BROOKHAVEN NATIONAL LABORATORY (USDOE)	03	ESD	02	NY	NY7890008975
2007	FULTON AVENUE	01	ROD	02	NY	NY0000110247
2006	HITEMAN LEATHER	01	ROD	02	NY	NYD981560915
2006	LAWRENCE AVIATION INDUSTRIES, INC.	01	ROD	02	NY	NYD002041531
2008	MOHONK ROAD INDUSTRIAL PLANT	01	ROD-A	02	NY	NYD986950012
2007	OLD ROOSEVELT FIELD CONTAMINATED GW AREA	01	ROD	02	NY	NYSFN0204234
2007	ONONDAGA LAKE	08	ROD	02	NY	NYD986913580
2005	KOPPERS CO., INC. (NEWPORT PLANT)	01	ROD	03	DE	DED980552244
2006	BRANDYWINE DRMO	01	ROD	03	MD	MD9570024803

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Pump and Treat, continued						
2006	ORDNANCE PRODUCTS, INC.	01	ROD	03	MD	MDD982364341
2008	CROSSLEY FARM	02	ROD-A	03	PA	PAD981740061
2008	HAVERTOWN PCP	03	ROD	03	PA	PAD002338010
2005	GREENWOOD CHEMICAL CO.	04	ROD	03	VA	VAD003125374
2005	ALLEGANY BALLISTICS LABORATORY (USNAVY)	05	ROD	03	WV	WV0170023691
2005	USN AIR STATION CECIL FIELD	10	ROD	04	FL	FL5170022474
2005	BREWER GOLD MINE	01	ROD	04	SC	SCD987577913
2008	SMALLEY-PIPER	01	ROD	04	TN	TNN000407378
2007	SANGAMO ELECTRIC DUMP/CRAB ORCHARD NATIONAL WILDLIFE REFUGE (USDOI)	02	ROD-A	05	IL	IL8143609487
2006	BENNETT STONE QUARRY	01	ROD-A	05	IN	IND006418651
2008	CAM-OR INC.	01	ROD	05	IN	IND005480462
2006	LEMON LANE LANDFILL	01	ROD-A	05	IN	IND980794341
2007	NEAL'S LANDFILL (BLOOMINGTON)	01	ROD-A	05	IN	IND980614556
2008	GRAND TRAVERSE OVERALL SUPPLY CO.	02	ROD	05	MI	MID017418559
2005	K&L AVENUE LANDFILL	01	ROD-A	05	MI	MID980506463
2008	NORTH BRONSON INDUSTRIAL SUBAREAS	02	ROD	05	MI	MIN000508192
2006	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	07	ROD-A	05	MN	MN7213820908
2007	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	07	ROD-A	05	MN	MN7213820908
2005	NEASE CHEMICAL	02	ROD	05	OH	OHD980610018
2007	MASTER DISPOSAL SERVICE LANDFILL	02	ROD	05	WI	WID980820070
2007	GRIGGS & WALNUT GROUND WATER PLUME	01	ROD	06	NM	NM0002271286
2008	MCGAFFEY AND MAIN GROUNDWATER PLUME	00	ROD	06	NM	NM0000605386
2006	GARLAND CREOSOTING	01	ROD	06	TX	TXD007330053
2006	HART CREOSOTING COMPANY	01	ROD	06	TX	TXD050299577
2006	JASPER CREOSOTING COMPANY INC.	01	ROD	06	TX	TXD008096240
2008	PANTEX PLANT (USDOE)	00	ROD	06	TX	TX4890110527
2008	STATE ROAD 114 GROUNDWATER PLUME	00	ROD	06	TX	TXSFN0605177
2007	OBEE ROAD	02	ROD	07	KS	KSD980631766
2005	PESTER REFINERY CO.	01	ROD-A	07	KS	KSD000829846
2008	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	01	ROD	07	MO	MO3213890012

FY	Site Name	Operable Unit	Decision Document Type	EPA Region	State	EPA ID
Pump and Treat, continued						
2007	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	02	ROD	07	MO	MO3213890012
2007	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	03	ROD	07	MO	MO3213890012
2005	10TH STREET SITE	02	ROD	07	NE	NED981713837
2006	HASTINGS GROUND WATER CONTAMINATION	02	ROD	07	NE	NED980862668
2007	HASTINGS GROUND WATER CONTAMINATION	06	ROD	07	NE	NED980862668
2006	PARKVIEW WELL	01	ROD	07	NE	NEN000704456
2006	ROCKY MOUNTAIN ARSENAL (USARMY)	03	ROD-A	08	CO	CO5210020769
2006	SILVER BOW CREEK/BUTTE AREA	08	ROD	08	MT	MTD980502777
2007	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	02	ROD	08	UT	UT0001119296
2006	HILL AIR FORCE BASE	05	ROD	08	UT	UT0571724350
2005	HILL AIR FORCE BASE	08	ROD	08	UT	UT0571724350
2008	HILL AIR FORCE BASE	12	ROD	08	UT	UT0571724350
2007	BROWN & BRYANT, INC. (ARVIN PLANT)	02	ROD	09	CA	CAD052384021
2008	FORT ORD	12	ROD	09	CA	CA7210020676
2007	JET PROPULSION LABORATORY (NASA)	01	ROD	09	CA	CA9800013030
2007	JET PROPULSION LABORATORY (NASA)	03	ROD	09	CA	CA9800013030
2007	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	ROD-A	09	CA	CA2890090002
2008	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	ROD	09	CA	CA2890090002
2007	MCCLELLAN AIR FORCE BASE (GROUND WATER CONTAMINATION)	01	ROD	09	CA	CA4570024337
2005	PEMACO MAYWOOD	01	ROD	09	CA	CAD980737092
2005	TAYLOR LUMBER AND TREATING	01	ROD	10	OR	ORD009042532
2007	FORT LEWIS LOGISTICS CENTER	01	ESD	10	WA	WA7210090067
2008	HANFORD 200-AREA (USDOE)	45	ROD	10	WA	WA1890090078
2006	MIDNITE MINE	01	ROD	10	WA	WAD980978753
2008	MOSES LAKE WELLFIELD CONTAMINATION	01	ROD	10	WA	WAD988466355
Unspecified Physical/Chemical Treatment						
2007	VALLEY WOOD PRESERVING, INC.	01	ROD-A	09	CA	CAD063020143

Appendix F: Groundwater Remedies Selected in Decision Documents from FY 2005–08, Organized by Location

Additional information regarding these sites, including site progress profiles, can be obtained by searching the Superfund Information System website at <http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm>. Additional information regarding treatment technologies is available from the EPA CLU-IN website at www.clu-in.org.

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region I					
Connecticut					
CTD001452093	DURHAM MEADOWS	01	2005	ROD	Alternative Water Supply
CTD001452093	DURHAM MEADOWS	01	2005	ROD	Institutional Controls
CTD001452093	DURHAM MEADOWS	01	2005	ROD	Monitoring
CTD001452093	DURHAM MEADOWS	01	2005	ROD	Pump and Treat
CTD980906515	NEW LONDON SUBMARINE BASE	02	2007	ROD	Institutional Controls
CTD980906515	NEW LONDON SUBMARINE BASE	02	2007	ROD	Monitoring
CTD980906515	NEW LONDON SUBMARINE BASE	09	2005	ROD	Institutional Controls
CTD980906515	NEW LONDON SUBMARINE BASE	09	2005	ROD	Monitoring
CTD980906515	NEW LONDON SUBMARINE BASE	09	2008	ROD	Institutional Controls
CTD980906515	NEW LONDON SUBMARINE BASE	09	2008	ROD	Monitoring
CTD980670806	OLD SOUTHTON LANDFILL	02	2006	ROD	Institutional Controls
CTD980670806	OLD SOUTHTON LANDFILL	02	2006	ROD	Monitoring
CTD009717604	SOLVENTS RECOVERY SERVICE OF NEW ENGLAND	03	2005	ROD	Institutional Controls
CTD009717604	SOLVENTS RECOVERY SERVICE OF NEW ENGLAND	03	2005	ROD	MNA of Groundwater
CTD009717604	SOLVENTS RECOVERY SERVICE OF NEW ENGLAND	03	2005	ROD	Monitoring
CTD009717604	SOLVENTS RECOVERY SERVICE OF NEW ENGLAND	03	2005	ROD	Pump and Treat
Massachusetts					
MAD001041987	BAIRD & MCGUIRE	01	2005	ESD	Institutional Controls
MAD982191363	BLACKBURN & UNION PRIVILEGES	01	2008	ROD	Institutional Controls
MAD982191363	BLACKBURN & UNION PRIVILEGES	01	2008	ROD	Monitoring
MAD982191363	BLACKBURN & UNION PRIVILEGES	01	2008	ROD	Pump and Treat
MA7210025154	FORT DEVENS	01	2005	ESD	Pump and Treat
MA7210025154	FORT DEVENS	06	2006	ESD	Institutional Controls
MA8570024424	HANSCOM FIELD/HANSCOM AIR FORCE BASE	01	2007	ROD	Bioremediation
MA8570024424	HANSCOM FIELD/HANSCOM AIR FORCE BASE	01	2007	ROD	Chemical Treatment
MA8570024424	HANSCOM FIELD/HANSCOM AIR FORCE BASE	01	2007	ROD	Institutional Controls
MA8570024424	HANSCOM FIELD/HANSCOM AIR FORCE BASE	01	2007	ROD	Monitoring
MA8570024424	HANSCOM FIELD/HANSCOM AIR FORCE BASE	01	2007	ROD	Pump and Treat
MAD001060805	HATHEWAY & PATTERSON	01	2005	ROD	Institutional Controls
MAD001060805	HATHEWAY & PATTERSON	01	2005	ROD	Monitoring
MAD076580950	INDUSTRI-PLEX	02	2006	ROD	Bioremediation

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region I, continued					
Massachusetts, continued					
MAD076580950	INDUSTRI-PLEX	02	2006	ROD	Institutional Controls
MAD076580950	INDUSTRI-PLEX	02	2006	ROD	Monitoring
MAD076580950	INDUSTRI-PLEX	02	2006	ROD	Pump and Treat
MAD990685422	NYANZA CHEMICAL WASTE DUMP	02	2006	ESD	Institutional Controls
MAD990685422	NYANZA CHEMICAL WASTE DUMP	02	2006	ESD	Monitoring
MA2570024487	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	01	2006	ROD	Institutional Controls
MA2570024487	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	01	2006	ROD	Monitoring
MA2570024487	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	01	2006	ROD	Pump and Treat
MA2570024487	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	09	2008	ESD	MNA of Groundwater
MA2570024487	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	13	2006	ROD	Institutional Controls
MA2570024487	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	13	2006	ROD	Monitoring
MA2570024487	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	16	2007	ROD	Institutional Controls
MA2570024487	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	16	2007	ROD	Pump and Treat
MA2570024487	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	24	2006	ROD	Institutional Controls
MA2570024487	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	24	2006	ROD	Monitoring
MA2570024487	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	25	2007	ROD	Institutional Controls
MA2570024487	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	25	2007	ROD	Monitoring
MA2570024487	OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	25	2007	ROD	Pump and Treat
MA2170022022	SOUTH WEYMOUTH NAVAL AIR STATION	01	2007	ROD	Institutional Controls
MA2170022022	SOUTH WEYMOUTH NAVAL AIR STATION	01	2007	ROD	Monitoring
MA2170022022	SOUTH WEYMOUTH NAVAL AIR STATION	07	2008	ROD	Monitoring
MA2170022022	SOUTH WEYMOUTH NAVAL AIR STATION	10	2006	ROD	Monitoring
MAD980520696	SUTTON BROOK DISPOSAL AREA	01	2007	ROD	Groundwater Containment (VEB)
MAD980520696	SUTTON BROOK DISPOSAL AREA	01	2007	ROD	Institutional Controls
MAD980520696	SUTTON BROOK DISPOSAL AREA	01	2007	ROD	MNA of Groundwater
MAD980520696	SUTTON BROOK DISPOSAL AREA	01	2007	ROD	Monitoring
MAD980520696	SUTTON BROOK DISPOSAL AREA	01	2007	ROD	Pump and Treat
MAD001002252	W.R. GRACE & CO., INC. (ACTON PLANT)	03	2005	ROD	Institutional Controls
MAD001002252	W.R. GRACE & CO., INC. (ACTON PLANT)	03	2005	ROD	MNA of Groundwater
MAD001002252	W.R. GRACE & CO., INC. (ACTON PLANT)	03	2005	ROD	Monitoring
MAD001002252	W.R. GRACE & CO., INC. (ACTON PLANT)	03	2005	ROD	Pump and Treat
MAD980732168	WELLS G&H	03	2006	ROD	Groundwater Containment (VEB)
MAD980732168	WELLS G&H	03	2006	ROD	Institutional Controls
MAD980732168	WELLS G&H	03	2006	ROD	Monitoring
Maine					
MED980915474	EASTLAND WOOLEN MILL	01	2006	ROD-A	Alternative Water Supply
MED980915474	EASTLAND WOOLEN MILL	01	2006	ROD-A	Bioremediation

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 1, continued					
Maine, continued					
MED980915474	EASTLAND WOOLEN MILL	01	2006	ROD-A	Chemical Treatment
MED980915474	EASTLAND WOOLEN MILL	01	2006	ROD-A	Institutional Controls
MED980915474	EASTLAND WOOLEN MILL	01	2006	ROD-A	Monitoring
MED985466168	WEST SITE/HOWS CORNERS	02	2006	ROD	MNA of Groundwater
MED985466168	WEST SITE/HOWS CORNERS	02	2006	ROD	Monitoring
MED980504435	WINTHROP LANDFILL	01	2007	ESD	MNA of Groundwater
MED980504435	WINTHROP LANDFILL	01	2007	ESD	Monitoring
New Hampshire					
NHD990717647	OTTATI & GOSS/KINGSTON STEEL DRUM	01	2007	ROD-A	Chemical Treatment
NHD990717647	OTTATI & GOSS/KINGSTON STEEL DRUM	01	2007	ROD-A	Institutional Controls
NHD990717647	OTTATI & GOSS/KINGSTON STEEL DRUM	01	2007	ROD-A	Monitoring
NHD980520217	TROY MILLS LANDFILL	01	2005	ROD	Institutional Controls
NHD980520217	TROY MILLS LANDFILL	01	2005	ROD	MNA of Groundwater
NHD980520217	TROY MILLS LANDFILL	01	2005	ROD	Monitoring
Rhode Island					
RI6170085470	NEWPORT NAVAL EDUCATION & TRAINING CENTER	01	2008	ESD	Institutional Controls
RID980731442	STAMINA MILLS, INC.	01	2007	ESD	Institutional Controls
RID981063993	WEST KINGSTON TOWN DUMP/URI DISPOSAL AREA	01	2006	ROD	Chemical Treatment
RID981063993	WEST KINGSTON TOWN DUMP/URI DISPOSAL AREA	01	2006	ROD	Institutional Controls
RID981063993	WEST KINGSTON TOWN DUMP/URI DISPOSAL AREA	01	2006	ROD	MNA of Groundwater
RID981063993	WEST KINGSTON TOWN DUMP/URI DISPOSAL AREA	01	2006	ROD	Monitoring
Vermont					
VTD988366621	ELIZABETH MINE	01	2006	ROD	Institutional Controls
VTD988366621	ELIZABETH MINE	01	2006	ROD	Monitoring
VTD069910354	POWNA TANNERY	01	2007	ESD	Institutional Controls
Region 2					
New Jersey					
NJD063157150	BOG CREEK FARM	02	2005	ROD-A	Air Sparging
NJD063157150	BOG CREEK FARM	02	2005	ROD-A	Bioremediation
NJD063157150	BOG CREEK FARM	02	2005	ROD-A	Chemical Treatment
NJD063157150	BOG CREEK FARM	02	2005	ROD-A	Institutional Controls
NJD063157150	BOG CREEK FARM	02	2005	ROD-A	Monitoring
NJD063157150	BOG CREEK FARM	02	2005	ROD-A	Pump and Treat
NJD980505176	BRICK TOWNSHIP LANDFILL	01	2008	ROD	Institutional Controls
NJD980505176	BRICK TOWNSHIP LANDFILL	01	2008	ROD	Monitoring
NJD053292652	BRIDGEPORT RENTAL & OIL SERVICES	02	2006	ROD	Bioremediation
NJD053292652	BRIDGEPORT RENTAL & OIL SERVICES	02	2006	ROD	Chemical Treatment

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 2, continued					
New Jersey, continued					
NJD053292652	BRIDGEPORT RENTAL & OIL SERVICES	02	2006	ROD	Institutional Controls
NJD053292652	BRIDGEPORT RENTAL & OIL SERVICES	02	2006	ROD	Phytoremediation
NJD053292652	BRIDGEPORT RENTAL & OIL SERVICES	02	2006	ROD	Pump and Treat
NJD980654131	DOVER MUNICIPAL WELL 4	02	2005	ROD	Chemical Treatment
NJD980654131	DOVER MUNICIPAL WELL 4	02	2005	ROD	Institutional Controls
NJD980654131	DOVER MUNICIPAL WELL 4	02	2005	ROD	MNA of Groundwater
NJD980654131	DOVER MUNICIPAL WELL 4	02	2005	ROD	Monitoring
NJD980772727	EMMELL'S SEPTIC LANDFILL	02	2008	ROD	Bioremediation
NJD980772727	EMMELL'S SEPTIC LANDFILL	02	2008	ROD	Institutional Controls
NJD980772727	EMMELL'S SEPTIC LANDFILL	02	2008	ROD	MNA of Groundwater
NJD980772727	EMMELL'S SEPTIC LANDFILL	02	2008	ROD	Pump and Treat
NJ0001360882	ICELAND COIN LAUNDRY AREA GW PLUME	01	2006	ROD	Bioremediation
NJ0001360882	ICELAND COIN LAUNDRY AREA GW PLUME	01	2006	ROD	Institutional Controls
NJ0001360882	ICELAND COIN LAUNDRY AREA GW PLUME	01	2006	ROD	Monitoring
NJD014623854	MARTIN AARON, INC.	01	2005	ROD	Institutional Controls
NJD014623854	MARTIN AARON, INC.	01	2005	ROD	Monitoring
NJD014623854	MARTIN AARON, INC.	01	2005	ROD	Pump and Treat
NJ0890090012	MIDDLESEX SAMPLING PLANT (USDOE)	01	2005	ROD	Monitoring
NJ0890090012	MIDDLESEX SAMPLING PLANT (USDOE)	01	2005	ROD	Pump and Treat
NJD980529408	MONITOR DEVICES, INC./INTERCIRCUITS, INC.	01	2005	ROD	Bioremediation
NJD980529408	MONITOR DEVICES, INC./INTERCIRCUITS, INC.	01	2005	ROD	Institutional Controls
NJD980529408	MONITOR DEVICES, INC./INTERCIRCUITS, INC.	01	2005	ROD	Monitoring
NJD980529408	MONITOR DEVICES, INC./INTERCIRCUITS, INC.	01	2005	ROD	Pump and Treat
NJD980654198	MYERS PROPERTY	02	2005	ROD	Institutional Controls
NJD980654198	MYERS PROPERTY	02	2005	ROD	Monitoring
NJD980654198	MYERS PROPERTY	02	2005	ROD	Pump and Treat
NJ0170022172	NAVAL WEAPONS STATION EARLE (SITE A)	06	2006	ROD	Institutional Controls
NJ0170022172	NAVAL WEAPONS STATION EARLE (SITE A)	06	2006	ROD	Monitoring
NJ0170022172	NAVAL WEAPONS STATION EARLE (SITE A)	07	2007	ROD	Institutional Controls
NJ0170022172	NAVAL WEAPONS STATION EARLE (SITE A)	07	2007	ROD	Monitoring
NJ0170022172	NAVAL WEAPONS STATION EARLE (SITE A)	08	2005	ROD	Institutional Controls
NJ0170022172	NAVAL WEAPONS STATION EARLE (SITE A)	08	2005	ROD	Monitoring
NJ0170022172	NAVAL WEAPONS STATION EARLE (SITE A)	09	2007	ROD	Institutional Controls
NJ0170022172	NAVAL WEAPONS STATION EARLE (SITE A)	09	2007	ROD	Monitoring
NJ3210020704	PICATINNY ARSENAL (USARMY)	02	2005	ROD	Monitoring
NJ3210020704	PICATINNY ARSENAL (USARMY)	03	2005	ROD	Institutional Controls
NJ3210020704	PICATINNY ARSENAL (USARMY)	03	2005	ROD	Monitoring

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 2, continued					
New Jersey, continued					
NJ3210020704	PICATINNY ARSENAL (USARMY) - Area E Groundwater/Site 22	02	2007	ROD	Institutional Controls
NJ3210020704	PICATINNY ARSENAL (USARMY) - Area E Groundwater/Site 22	02	2007	ROD	MNA of Groundwater
NJ3210020704	PICATINNY ARSENAL (USARMY) - Area E Groundwater/Site 22	02	2007	ROD	Monitoring
NJD981179047	POHATCONG VALLEY GROUND WATER CONTAMINATION	01	2006	ROD	Institutional Controls
NJD981179047	POHATCONG VALLEY GROUND WATER CONTAMINATION	01	2006	ROD	MNA of Groundwater
NJD981179047	POHATCONG VALLEY GROUND WATER CONTAMINATION	01	2006	ROD	Monitoring
NJD981179047	POHATCONG VALLEY GROUND WATER CONTAMINATION	01	2006	ROD	Pump and Treat
NJD981084767	PUCHACK WELL FIELD	01	2006	ROD	Chemical Treatment
NJD981084767	PUCHACK WELL FIELD	01	2006	ROD	Institutional Controls
NJD981084767	PUCHACK WELL FIELD	01	2006	ROD	MNA of Groundwater
NJD981084767	PUCHACK WELL FIELD	01	2006	ROD	Monitoring
NJD980654172	U.S. RADIUM CORP.	03	2006	ROD	Monitoring
NJD980529879	VENTRON/VELSICOL	01	2007	ROD	Groundwater Containment (VEB)
NJD980529879	VENTRON/VELSICOL	01	2007	ROD	Institutional Controls
NJD980529879	VENTRON/VELSICOL	01	2007	ROD	Monitoring
NJD054981337	WALDICK AEROSPACE DEVICES, INC.	02	2008	ROD-A	Institutional Controls
NJD054981337	WALDICK AEROSPACE DEVICES, INC.	02	2008	ROD-A	MNA of Groundwater
NJD054981337	WALDICK AEROSPACE DEVICES, INC.	02	2008	ROD-A	Monitoring
New York					
NY7890008975	BROOKHAVEN NATIONAL LABORATORY (USDOE)	03	2005	ESD	Institutional Controls
NY7890008975	BROOKHAVEN NATIONAL LABORATORY (USDOE)	03	2005	ESD	MNA of Groundwater
NY7890008975	BROOKHAVEN NATIONAL LABORATORY (USDOE)	03	2005	ESD	Pump and Treat
NY7890008975	BROOKHAVEN NATIONAL LABORATORY (USDOE)	08	2007	ROD	Institutional Controls
NY7890008975	BROOKHAVEN NATIONAL LABORATORY (USDOE)	08	2007	ROD	MNA of Groundwater
NY7890008975	BROOKHAVEN NATIONAL LABORATORY (USDOE)	08	2007	ROD	Monitoring
NYD125499673	COMPUTER CIRCUITS	01	2008	ROD	Institutional Controls
NYD125499673	COMPUTER CIRCUITS	01	2008	ROD	Monitoring
NY0002455756	CONSOLIDATED IRON AND METAL	01	2007	ROD	Institutional Controls
NY0000110247	FULTON AVENUE	01	2007	ROD	Chemical Treatment
NY0000110247	FULTON AVENUE	01	2007	ROD	Institutional Controls
NY0000110247	FULTON AVENUE	01	2007	ROD	Pump and Treat
NY4571924451	GRIFFISS AIR FORCE BASE (11 AREAS)	24	2005	ROD	Institutional Controls
NY4571924451	GRIFFISS AIR FORCE BASE (11 AREAS)	27	2005	ROD	Institutional Controls
NY4571924451	GRIFFISS AIR FORCE BASE (11 AREAS)	28	2005	ROD	Institutional Controls
NYD980780779	HERTEL LANDFILL	01	2005	ROD-A	Institutional Controls
NYD980780779	HERTEL LANDFILL	01	2005	ROD-A	Monitoring
NYD981560915	HITEMAN LEATHER	01	2006	ROD	Institutional Controls

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 2, continued					
New York, continued					
NYD981560915	HITEMAN LEATHER	01	2006	ROD	Monitoring
NYD981560915	HITEMAN LEATHER	01	2006	ROD	Pump and Treat
NYD066813064	HOPEWELL PRECISION	02	2008	ROD	Alternative Water Supply
NYD002041531	LAWRENCE AVIATION INDUSTRIES, INC.	01	2006	ROD	Chemical Treatment
NYD002041531	LAWRENCE AVIATION INDUSTRIES, INC.	01	2006	ROD	Institutional Controls
NYD002041531	LAWRENCE AVIATION INDUSTRIES, INC.	01	2006	ROD	Monitoring
NYD002041531	LAWRENCE AVIATION INDUSTRIES, INC.	01	2006	ROD	Pump and Treat
NYD986882660	LI TUNGSTEN CORP.	02	2005	ESD	Institutional Controls
NY0001233634	LITTLE VALLEY	02	2005	ROD	Institutional Controls
NY0001233634	LITTLE VALLEY	02	2005	ROD	MNA of Groundwater
NY0001233634	LITTLE VALLEY	02	2005	ROD	Monitoring
NYD048148175	MERCURY REFINING, INC.	01	2008	ROD	Institutional Controls
NYD048148175	MERCURY REFINING, INC.	01	2008	ROD	Monitoring
NYD986950012	MOHONK ROAD INDUSTRIAL PLANT	01	2008	ROD-A	Institutional Controls
NYD986950012	MOHONK ROAD INDUSTRIAL PLANT	01	2008	ROD-A	MNA of Groundwater
NYD986950012	MOHONK ROAD INDUSTRIAL PLANT	01	2008	ROD-A	Monitoring
NYD986950012	MOHONK ROAD INDUSTRIAL PLANT	01	2008	ROD-A	Pump and Treat
NYD000511451	NEPERA CHEMICAL CO., INC.	01	2007	ROD	Bioremediation
NYD000511451	NEPERA CHEMICAL CO., INC.	01	2007	ROD	Institutional Controls
NYD000511451	NEPERA CHEMICAL CO., INC.	01	2007	ROD	Monitoring
NYSFN0204234	OLD ROOSEVELT FIELD CONTAMINATED GW AREA	01	2007	ROD	Institutional Controls
NYSFN0204234	OLD ROOSEVELT FIELD CONTAMINATED GW AREA	01	2007	ROD	Monitoring
NYSFN0204234	OLD ROOSEVELT FIELD CONTAMINATED GW AREA	01	2007	ROD	Pump and Treat
NYD986913580	ONONDAGA LAKE	08	2007	ROD	Engineering Control
NYD986913580	ONONDAGA LAKE	08	2007	ROD	Institutional Controls
NYD986913580	ONONDAGA LAKE	08	2007	ROD	Monitoring
NYD986913580	ONONDAGA LAKE	08	2007	ROD	Pump and Treat
NYD980530265	PETER COOPER	01	2005	ROD	Groundwater Containment (VEB)
NYD980530265	PETER COOPER	01	2005	ROD	Institutional Controls
NYD980592547	PETER COOPER CORPORATION (MARKHAMS)	01	2007	ROD	Institutional Controls
NYD980592547	PETER COOPER CORPORATION (MARKHAMS)	01	2007	ROD	MNA of Groundwater
NYD980592547	PETER COOPER CORPORATION (MARKHAMS)	01	2007	ROD	Monitoring
NY4571924774	PLATTSBURGH AIR FORCE BASE	19	2008	ROD	Chemical Treatment
NY4571924774	PLATTSBURGH AIR FORCE BASE	19	2008	ROD	Institutional Controls
NY4571924774	PLATTSBURGH AIR FORCE BASE	19	2008	ROD	Monitoring
NY0213820830	SENECA ARMY DEPOT	01	2005	ROD	Air Sparging
NY0213820830	SENECA ARMY DEPOT	01	2005	ROD	Alternative Water Supply

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 2, continued					
New York, continued					
NY0213820830	SENECA ARMY DEPOT	01	2005	ROD	Institutional Controls
NY0213820830	SENECA ARMY DEPOT	01	2005	ROD	Monitoring
NY0213820830	SENECA ARMY DEPOT	01	2005	ROD	Permeable Reactive Barrier
NY0213820830	SENECA ARMY DEPOT	04	2006	ROD	Institutional Controls
NY0213820830	SENECA ARMY DEPOT	04	2006	ROD	Monitoring
NY0213820830	SENECA ARMY DEPOT	09	2007	ROD	Institutional Controls
NY0213820830	SENECA ARMY DEPOT	10	2007	ROD	Institutional Controls
NY0213820830	SENECA ARMY DEPOT	17	2008	ROD	Institutional Controls
Region 3					
Delaware					
DE8570024010	DOVER AIR FORCE BASE	15	2006	ROD	Bioremediation
DE8570024010	DOVER AIR FORCE BASE	15	2006	ROD	Institutional Controls
DE8570024010	DOVER AIR FORCE BASE	15	2006	ROD	MNA of Groundwater
DE8570024010	DOVER AIR FORCE BASE	15	2006	ROD	Monitoring
DE8570024010	DOVER AIR FORCE BASE	16	2006	ROD	Bioremediation
DE8570024010	DOVER AIR FORCE BASE	16	2006	ROD	Institutional Controls
DE8570024010	DOVER AIR FORCE BASE	16	2006	ROD	MNA of Groundwater
DE8570024010	DOVER AIR FORCE BASE	16	2006	ROD	Monitoring
DE8570024010	DOVER AIR FORCE BASE	17	2006	ROD	Bioremediation
DE8570024010	DOVER AIR FORCE BASE	17	2006	ROD	Institutional Controls
DE8570024010	DOVER AIR FORCE BASE	17	2006	ROD	MNA of Groundwater
DE8570024010	DOVER AIR FORCE BASE	17	2006	ROD	Monitoring
DE8570024010	DOVER AIR FORCE BASE	19	2006	ROD	Bioremediation
DE8570024010	DOVER AIR FORCE BASE	19	2006	ROD	Institutional Controls
DE8570024010	DOVER AIR FORCE BASE	19	2006	ROD	MNA of Groundwater
DE8570024010	DOVER AIR FORCE BASE	19	2006	ROD	Monitoring
DE8570024010	DOVER AIR FORCE BASE	23	2006	ROD	Institutional Controls
DE8570024010	DOVER AIR FORCE BASE	24	2006	ROD	Institutional Controls
DE8570024010	DOVER AIR FORCE BASE	24	2006	ROD	Monitoring
DED980552244	KOPPERS CO., INC. (NEWPORT PLANT)	01	2005	ROD	Groundwater Containment (VEB)
DED980552244	KOPPERS CO., INC. (NEWPORT PLANT)	01	2005	ROD	Institutional Controls
DED980552244	KOPPERS CO., INC. (NEWPORT PLANT)	01	2005	ROD	Monitoring
DED980552244	KOPPERS CO., INC. (NEWPORT PLANT)	01	2005	ROD	Pump and Treat
Maryland					
MD2210020036	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	11	2005	ESD	MNA of Groundwater
MD2210020036	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	18	2007	ROD	Institutional Controls
MD2210020036	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	35	2007	ROD	Institutional Controls

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 3, continued					
Maryland, continued					
MD2210020036	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	35	2007	ROD	Monitoring
MD2210020036	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	40	2007	ROD	Institutional Controls
MD2210020036	ABERDEEN PROVING GROUND (EDGEWOOD AREA)	40	2007	ROD	Monitoring
MD3210021355	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	06	2006	ROD	Bioremediation
MD3210021355	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	06	2006	ROD	Institutional Controls
MD3210021355	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	06	2006	ROD	MNA of Groundwater
MD3210021355	ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	06	2006	ROD	Monitoring
MD0570024000	ANDREWS AIR FORCE BASE	03	2006	ROD	Bioremediation
MD0570024000	ANDREWS AIR FORCE BASE	03	2006	ROD	Institutional Controls
MD0570024000	ANDREWS AIR FORCE BASE	03	2006	ROD	Monitoring
MD0570024000	ANDREWS AIR FORCE BASE	07	2005	ROD	Bioremediation
MD0570024000	ANDREWS AIR FORCE BASE	07	2005	ROD	Institutional Controls
MD0570024000	ANDREWS AIR FORCE BASE	07	2005	ROD	Monitoring
MD0570024000	ANDREWS AIR FORCE BASE	11	2007	ROD	Bioremediation
MD0570024000	ANDREWS AIR FORCE BASE	11	2007	ROD	Institutional Controls
MD0570024000	ANDREWS AIR FORCE BASE	11	2007	ROD	Monitoring
MD9570024803	BRANDYWINE DRMO	01	2006	ROD	Bioremediation
MD9570024803	BRANDYWINE DRMO	01	2006	ROD	Institutional Controls
MD9570024803	BRANDYWINE DRMO	01	2006	ROD	Monitoring
MD9570024803	BRANDYWINE DRMO	01	2006	ROD	Pump and Treat
MD7170024684	INDIAN HEAD NAVAL SURFACE WARFARE CENTER	01	2007	ROD	Bioremediation
MD7170024684	INDIAN HEAD NAVAL SURFACE WARFARE CENTER	01	2007	ROD	Institutional Controls
MD7170024684	INDIAN HEAD NAVAL SURFACE WARFARE CENTER	01	2007	ROD	MNA of Groundwater
MD7170024684	INDIAN HEAD NAVAL SURFACE WARFARE CENTER	05	2005	ROD	Institutional Controls
MD7170024684	INDIAN HEAD NAVAL SURFACE WARFARE CENTER	05	2005	ROD	Monitoring
MDD982364341	ORDNANCE PRODUCTS, INC.	01	2006	ROD	Alternative Water Supply
MDD982364341	ORDNANCE PRODUCTS, INC.	01	2006	ROD	Institutional Controls
MDD982364341	ORDNANCE PRODUCTS, INC.	01	2006	ROD	Monitoring
MDD982364341	ORDNANCE PRODUCTS, INC.	01	2006	ROD	Pump and Treat
MD7170024536	PATUXENT RIVER NAVAL AIR STATION	24	2008	ROD	Bioremediation
MD7170024536	PATUXENT RIVER NAVAL AIR STATION	24	2008	ROD	Institutional Controls
Pennsylvania					
PAD061105128	BALLY GROUND WATER CONTAMINATION	01	2007	ROD-A	Alternative Water Supply
PAD003047974	BENDIX FLIGHT SYSTEMS DIVISION	01	2008	ESD	Institutional Controls
PAD089667695	BRESLUBE-PENN, INC.	01	2007	ROD	Bioremediation
PAD089667695	BRESLUBE-PENN, INC.	01	2007	ROD	Institutional Controls
PAD089667695	BRESLUBE-PENN, INC.	01	2007	ROD	Monitoring

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 3, continued					
Pennsylvania, continued					
PAD981740061	CROSSLEY FARM	02	2008	ROD-A	Institutional Controls
PAD981740061	CROSSLEY FARM	02	2008	ROD-A	Monitoring
PAD981740061	CROSSLEY FARM	02	2008	ROD-A	Pump and Treat
PAD980508832	DORNEY ROAD LANDFILL	01	2007	ESD	Institutional Controls
PAD077087989	FOOTE MINERAL CO.	01	2006	ROD	Bioremediation
PAD077087989	FOOTE MINERAL CO.	01	2006	ROD	Institutional Controls
PAD077087989	FOOTE MINERAL CO.	01	2006	ROD	Monitoring
PAD002338010	HAVERTOWN PCP	03	2008	ROD	Institutional Controls
PAD002338010	HAVERTOWN PCP	03	2008	ROD	Pump and Treat
PA6213820503	LETTERKENNY ARMY DEPOT (SE AREA)	10	2006	ROD	Bioremediation
PA6213820503	LETTERKENNY ARMY DEPOT (SE AREA)	10	2006	ROD	Institutional Controls
PA6213820503	LETTERKENNY ARMY DEPOT (SE AREA)	10	2006	ROD	MNA of Groundwater
PA6213820503	LETTERKENNY ARMY DEPOT (SE AREA)	10	2006	ROD	Monitoring
PA3170022104	NAVY SHIPS PARTS CONTROL CENTER	04	2005	ROD	Chemical Treatment
PA3170022104	NAVY SHIPS PARTS CONTROL CENTER	04	2005	ROD	Institutional Controls
PA3170022104	NAVY SHIPS PARTS CONTROL CENTER	04	2005	ROD	Monitoring
PAD039017694	RAYMARK	02	2007	ESD	Institutional Controls
PAD981033459	RYELAND ROAD ARSENIC SITE	01	2008	ROD-A	Alternative Water Supply
PAD981033459	RYELAND ROAD ARSENIC SITE	01	2006	ROD	Engineering Control
PAD981033459	RYELAND ROAD ARSENIC SITE	01	2006	ROD	Phytoremediation
PAD001933175	SHARON STEEL CORP (FARRELL WORKS DISPOSAL AREA)	01	2007	ROD	Engineering Control
PAD001933175	SHARON STEEL CORP (FARRELL WORKS DISPOSAL AREA)	01	2007	ROD	Institutional Controls
PAD001933175	SHARON STEEL CORP (FARRELL WORKS DISPOSAL AREA)	01	2007	ROD	Monitoring
PAD980539126	UGI COLUMBIA GAS PLANT	01	2007	ROD	Institutional Controls
PAD980539126	UGI COLUMBIA GAS PLANT	01	2007	ROD	MNA of Groundwater
PAD980539126	UGI COLUMBIA GAS PLANT	01	2007	ROD	Monitoring
PAD980829527	WALSH LANDFILL	04	2006	ROD	Institutional Controls
PAD980829527	WALSH LANDFILL	04	2006	ROD	Monitoring
PAD987277837	WILLOW GROVE NAVAL AIR AND AIR RESERVE STATION	03	2008	ROD	Institutional Controls
PAD987277837	WILLOW GROVE NAVAL AIR AND AIR RESERVE STATION	03	2008	ROD	Monitoring
Virginia					
VAD990710410	ATLANTIC WOOD INDUSTRIES, INC.	02	2008	ROD	Institutional Controls
VAD990710410	ATLANTIC WOOD INDUSTRIES, INC.	02	2008	ROD	MNA of Groundwater
VAD990710410	ATLANTIC WOOD INDUSTRIES, INC.	02	2008	ROD	Monitoring
VA3971520751	DEFENSE GENERAL SUPPLY CENTER (DLA)	08	2007	ROD	Bioremediation
VA3971520751	DEFENSE GENERAL SUPPLY CENTER (DLA)	08	2007	ROD	Institutional Controls
VA3971520751	DEFENSE GENERAL SUPPLY CENTER (DLA)	08	2007	ROD	MNA of Groundwater

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 3, continued					
Virginia, continued					
VA3971520751	DEFENSE GENERAL SUPPLY CENTER (DLA)	08	2007	ROD	Monitoring
VA3971520751	DEFENSE GENERAL SUPPLY CENTER (DLA)	10	2007	ROD	Institutional Controls
VA3971520751	DEFENSE GENERAL SUPPLY CENTER (DLA)	11	2007	ROD	Institutional Controls
VA3971520751	DEFENSE GENERAL SUPPLY CENTER (DLA)	12	2006	ROD	Institutional Controls
VA3971520751	DEFENSE GENERAL SUPPLY CENTER (DLA)	12	2006	ROD	Monitoring
VAD003125374	GREENWOOD CHEMICAL CO.	04	2005	ROD	Fracturing
VAD003125374	GREENWOOD CHEMICAL CO.	04	2005	ROD	Institutional Controls
VAD003125374	GREENWOOD CHEMICAL CO.	04	2005	ROD	Pump and Treat
VAD980539878	H & H INC., BURN PIT	01	2007	ESD	Institutional Controls
VA1170024722	MARINE CORPS COMBAT DEVELOPMENT COMMAND	04	2008	ROD	Institutional Controls
VA1170024722	MARINE CORPS COMBAT DEVELOPMENT COMMAND	04	2008	ROD	Monitoring
VA1170024722	MARINE CORPS COMBAT DEVELOPMENT COMMAND	19	2008	ROD	Bioremediation
VA1170024722	MARINE CORPS COMBAT DEVELOPMENT COMMAND	19	2008	ROD	Institutional Controls
VA1170024722	MARINE CORPS COMBAT DEVELOPMENT COMMAND	19	2008	ROD	Monitoring
VA5170022482	NAVAL AMPHIBIOUS BASE LITTLE CREEK	05	2007	ROD	Bioremediation
VA5170022482	NAVAL AMPHIBIOUS BASE LITTLE CREEK	05	2007	ROD	Monitoring
VA5170022482	NAVAL AMPHIBIOUS BASE LITTLE CREEK	06	2005	ROD	Bioremediation
VA5170022482	NAVAL AMPHIBIOUS BASE LITTLE CREEK	06	2005	ROD	Chemical Treatment
VA5170022482	NAVAL AMPHIBIOUS BASE LITTLE CREEK	06	2005	ROD	Institutional Controls
VA5170022482	NAVAL AMPHIBIOUS BASE LITTLE CREEK	06	2005	ROD	Monitoring
VA5170022482	NAVAL AMPHIBIOUS BASE LITTLE CREEK	07	2007	ROD	Bioremediation
VA5170022482	NAVAL AMPHIBIOUS BASE LITTLE CREEK	07	2007	ROD	Institutional Controls
VA5170022482	NAVAL AMPHIBIOUS BASE LITTLE CREEK	07	2007	ROD	MNA of Groundwater
VA5170022482	NAVAL AMPHIBIOUS BASE LITTLE CREEK	07	2007	ROD	Monitoring
VA7170024684	NAVAL SURFACE WARFARE CENTER - DAHLGREN	19	2008	ROD	Bioremediation
VA7170024684	NAVAL SURFACE WARFARE CENTER - DAHLGREN	19	2008	ROD	Institutional Controls
VA7170024684	NAVAL SURFACE WARFARE CENTER - DAHLGREN	19	2008	ROD	MNA of Groundwater
VA7170024684	NAVAL SURFACE WARFARE CENTER - DAHLGREN	19	2008	ROD	Monitoring
VA6170061463	NORFOLK NAVAL BASE (SEWELLS POINT NAVAL COMPLEX)	10	2008	ROD	Institutional Controls
West Virginia					
WY0170023691	ALLEGANY BALLISTICS LABORATORY (USNAVY)	02	2006	ROD	Institutional Controls
WY0170023691	ALLEGANY BALLISTICS LABORATORY (USNAVY)	02	2006	ROD	MNA of Groundwater
WY0170023691	ALLEGANY BALLISTICS LABORATORY (USNAVY)	02	2006	ROD	Monitoring
WY0170023691	ALLEGANY BALLISTICS LABORATORY (USNAVY)	02	2006	ROD	Permeable Reactive Barrier
WY0170023691	ALLEGANY BALLISTICS LABORATORY (USNAVY)	05	2005	ROD	Institutional Controls
WY0170023691	ALLEGANY BALLISTICS LABORATORY (USNAVY)	05	2005	ROD	Monitoring
WY0170023691	ALLEGANY BALLISTICS LABORATORY (USNAVY)	05	2005	ROD	Pump and Treat

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 3, continued					
West Virginia, continued					
WYD047989207	FIKE CHEMICAL, INC.	04	2007	ROD-A	Bioremediation
WYD047989207	FIKE CHEMICAL, INC.	04	2007	ROD-A	Chemical Treatment
WYD047989207	FIKE CHEMICAL, INC.	04	2007	ROD-A	MNA of Groundwater
Region 4					
Alabama					
ALD981868466	AMERICAN BRASS INC.	01	2006	ROD	Institutional Controls
ALD981868466	AMERICAN BRASS INC.	01	2006	ROD	MNA of Groundwater
ALD981868466	AMERICAN BRASS INC.	01	2006	ROD	Monitoring
AL3210020027	ANNISTON ARMY DEPOT (SOUTHEAST INDUSTRIAL AREA)	03	2006	ROD	Institutional Controls
AL3210020027	ANNISTON ARMY DEPOT (SOUTHEAST INDUSTRIAL AREA)	03	2006	ROD	MNA of Groundwater
AL3210020027	ANNISTON ARMY DEPOT (SOUTHEAST INDUSTRIAL AREA)	03	2006	ROD	Monitoring
AL1800013863	US NASA MARSHALL SPACE FLIGHT CENTER - Interim Groundwater	03	2007	ROD	Institutional Controls
AL7210020742	USARMY/NASA REDSTONE ARSENAL	05	2007	ROD	Monitoring
AL7210020742	USARMY/NASA REDSTONE ARSENAL	06	2007	ROD	Monitoring
AL7210020742	USARMY/NASA REDSTONE ARSENAL	19	2007	ROD	Institutional Controls
Florida					
FLD991279894	COLEMAN-EVANS WOOD PRESERVING CO.	01	2005	ESD	MNA of Groundwater
FLD008168346	ESCAMBIA WOOD - PENSACOLA	01	2006	ROD	Monitoring
FLD008168346	ESCAMBIA WOOD - PENSACOLA	02	2008	ROD	Bioremediation
FLD008168346	ESCAMBIA WOOD - PENSACOLA	02	2008	ROD	Chemical Treatment
FLD008168346	ESCAMBIA WOOD - PENSACOLA	02	2008	ROD	Institutional Controls
FLD008168346	ESCAMBIA WOOD - PENSACOLA	02	2008	ROD	MNA of Groundwater
FL7570024037	HOMESTEAD AIR FORCE BASE	11	2006	ROD	Institutional Controls
FL7570024037	HOMESTEAD AIR FORCE BASE	11	2006	ROD	Monitoring
FL7570024037	HOMESTEAD AIR FORCE BASE	15	2006	ROD	Institutional Controls
FL7570024037	HOMESTEAD AIR FORCE BASE	15	2006	ROD	Monitoring
FL7570024037	HOMESTEAD AIR FORCE BASE	20	2006	ROD	Institutional Controls
FL7570024037	HOMESTEAD AIR FORCE BASE	20	2006	ROD	Monitoring
FL7570024037	HOMESTEAD AIR FORCE BASE	21	2006	ROD	Institutional Controls
FL7570024037	HOMESTEAD AIR FORCE BASE	21	2006	ROD	Monitoring
FL7570024037	HOMESTEAD AIR FORCE BASE	30	2006	ROD	Institutional Controls
FL7570024037	HOMESTEAD AIR FORCE BASE	30	2006	ROD	Monitoring
FL7570024037	HOMESTEAD AIR FORCE BASE	31	2006	ROD	Institutional Controls
FL7570024037	HOMESTEAD AIR FORCE BASE	31	2006	ROD	Monitoring
FL6170024412	JACKSONVILLE NAVAL AIR STATION	03	2007	ROD	Institutional Controls
FL6170024412	JACKSONVILLE NAVAL AIR STATION	03	2007	ROD	MNA of Groundwater
FL6170024412	JACKSONVILLE NAVAL AIR STATION	03	2007	ROD	Monitoring

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 4, continued					
Florida, continued					
FL6170024412	JACKSONVILLE NAVAL AIR STATION	05	2005	ROD	Bioremediation
FL6170024412	JACKSONVILLE NAVAL AIR STATION	05	2005	ROD	Institutional Controls
FL6170024412	JACKSONVILLE NAVAL AIR STATION	05	2005	ROD	MNA of Groundwater
FL6170024412	JACKSONVILLE NAVAL AIR STATION	05	2005	ROD	Monitoring
FL6170024412	JACKSONVILLE NAVAL AIR STATION	06	2007	ROD	Chemical Treatment
FL6170024412	JACKSONVILLE NAVAL AIR STATION	06	2007	ROD	Institutional Controls
FL6170024412	JACKSONVILLE NAVAL AIR STATION	06	2007	ROD	MNA of Groundwater
FL6170024412	JACKSONVILLE NAVAL AIR STATION	06	2007	ROD	Monitoring
FL6170024412	JACKSONVILLE NAVAL AIR STATION	07	2005	ROD	Institutional Controls
FL6170024412	JACKSONVILLE NAVAL AIR STATION	07	2005	ROD	MNA of Groundwater
FL6170024412	JACKSONVILLE NAVAL AIR STATION	07	2005	ROD	Monitoring
FL6170024412	JACKSONVILLE NAVAL AIR STATION	08	2008	ROD	Institutional Controls
FL6170024412	JACKSONVILLE NAVAL AIR STATION	08	2008	ROD	MNA of Groundwater
FL6170024412	JACKSONVILLE NAVAL AIR STATION	08	2008	ROD	Monitoring
FLD042110841	LANDIA CHEMICAL COMPANY	01	2007	ROD	Bioremediation
FLD042110841	LANDIA CHEMICAL COMPANY	01	2007	ROD	Chemical Treatment
FLD042110841	LANDIA CHEMICAL COMPANY	01	2007	ROD	Institutional Controls
FLD088787585	MRI CORP (TAMPA)	02	2008	ROD	Groundwater Containment (VEB)
FLD088787585	MRI CORP (TAMPA)	02	2008	ROD	Institutional Controls
FLD088787585	MRI CORP (TAMPA)	02	2008	ROD	MNA of Groundwater
FLD088787585	MRI CORP (TAMPA)	02	2008	ROD	Monitoring
FLD004091807	PEAK OIL CO./BAY DRUM CO.	02	2005	ROD-A	Air Sparging
FLD004091807	PEAK OIL CO./BAY DRUM CO.	02	2005	ROD-A	Bioremediation
FLD004091807	PEAK OIL CO./BAY DRUM CO.	02	2005	ROD-A	Institutional Controls
FLD004091807	PEAK OIL CO./BAY DRUM CO.	02	2005	ROD-A	MNA of Groundwater
FLD004091807	PEAK OIL CO./BAY DRUM CO.	02	2005	ROD-A	Monitoring
FL9170024567	PENSACOLA NAVAL AIR STATION	02	2008	ROD	Institutional Controls
FL9170024567	PENSACOLA NAVAL AIR STATION	02	2008	ROD	Monitoring
FL9170024567	PENSACOLA NAVAL AIR STATION	11	2007	ROD	Institutional Controls
FL9170024567	PENSACOLA NAVAL AIR STATION	11	2007	ROD	Monitoring
FL9170024567	PENSACOLA NAVAL AIR STATION	13	2007	ROD	Institutional Controls
FL9170024567	PENSACOLA NAVAL AIR STATION	13	2007	ROD	Monitoring
FLD004092532	STAUFFER CHEMICAL CO (TAMPA)	01	2006	ROD-A	Institutional Controls
FLD004092532	STAUFFER CHEMICAL CO (TAMPA)	01	2006	ROD-A	Monitoring
FLD010596013	STAUFFER CHEMICAL CO. (TARPON SPRINGS)	01	2007	ESD	Groundwater Containment (VEB)
FLD004065546	TOWER CHEMICAL CO.	03	2006	ROD	Alternative Water Supply
FLD004065546	TOWER CHEMICAL CO.	03	2006	ROD	Bioremediation

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 4, continued					
Florida, continued					
FLD004065546	TOWER CHEMICAL CO.	03	2006	ROD	Institutional Controls
FLD004065546	TOWER CHEMICAL CO.	03	2006	ROD	MNA of Groundwater
FLD004065546	TOWER CHEMICAL CO.	03	2006	ROD	Monitoring
FLD098924038	UNITED METALS, INC.	01	2006	ROD	Institutional Controls
FLD098924038	UNITED METALS, INC.	01	2006	ROD	MNA of Groundwater
FLD098924038	UNITED METALS, INC.	01	2006	ROD	Monitoring
FLS170022474	USN AIR STATION CECIL FIELD	09	2005	ROD	Institutional Controls
FLS170022474	USN AIR STATION CECIL FIELD	09	2005	ROD	MNA of Groundwater
FLS170022474	USN AIR STATION CECIL FIELD	09	2005	ROD	Monitoring
FLS170022474	USN AIR STATION CECIL FIELD	09	2008	ROD	Bioremediation
FLS170022474	USN AIR STATION CECIL FIELD	09	2008	ROD	MNA of Groundwater
FLS170022474	USN AIR STATION CECIL FIELD	09	2008	ROD	Monitoring
FLS170022474	USN AIR STATION CECIL FIELD	10	2005	ROD	Institutional Controls
FLS170022474	USN AIR STATION CECIL FIELD	10	2005	ROD	MNA of Groundwater
FLS170022474	USN AIR STATION CECIL FIELD	10	2005	ROD	Monitoring
FLS170022474	USN AIR STATION CECIL FIELD	10	2005	ROD	Pump and Treat
Georgia					
GA7170023694	MARINE CORPS LOGISTICS BASE	06	2005	ESD	Chemical Treatment
GAN000407449	PEACH ORCHARD RD PCE GROUNDWATER PLUME SITE	01	2007	ROD	Chemical Treatment
GAN000407449	PEACH ORCHARD RD PCE GROUNDWATER PLUME SITE	01	2007	ROD	Institutional Controls
GAN000407449	PEACH ORCHARD RD PCE GROUNDWATER PLUME SITE	01	2007	ROD	MNA of Groundwater
GAN000407449	PEACH ORCHARD RD PCE GROUNDWATER PLUME SITE	01	2007	ROD	Monitoring
Kentucky					
KY8890008982	PADUCAH GASEOUS DIFFUSION PLANT (USDOE)	19	2005	ROD	Institutional Controls
KY8890008982	PADUCAH GASEOUS DIFFUSION PLANT (USDOE)	19	2005	ROD	Monitoring
Mississippi					
MSD004006995	AMERICAN CREOSOTE WORKS INC	01	2007	ROD	Groundwater Containment (VEB)
MSD004006995	AMERICAN CREOSOTE WORKS INC	01	2007	ROD	Monitoring
MSD065490930	PICAYUNE WOOD TREATING SITE	00	2007	ROD	Bioremediation
MSD065490930	PICAYUNE WOOD TREATING SITE	00	2007	ROD	Chemical Treatment
MSD065490930	PICAYUNE WOOD TREATING SITE	00	2007	ROD	Groundwater Containment (VEB)
MSD065490930	PICAYUNE WOOD TREATING SITE	00	2007	ROD	Institutional Controls
MSD065490930	PICAYUNE WOOD TREATING SITE	00	2007	ROD	MNA of Groundwater
MSD065490930	PICAYUNE WOOD TREATING SITE	00	2007	ROD	Monitoring
North Carolina					
NC6170022580	CAMP LEJEUNE MILITARY RES. (USNAVY)	07	2005	ROD	Institutional Controls
NC6170022580	CAMP LEJEUNE MILITARY RES. (USNAVY)	07	2005	ROD	MNA of Groundwater

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 4, continued					
North Carolina, continued					
NC6170022580	CAMP LEJEUNE MILITARY RES. (USNAVY)	07	2005	ROD	Monitoring
NC6170022580	CAMP LEJEUNE MILITARY RES. (USNAVY)	17	2007	ROD	Chemical Treatment
NC6170022580	CAMP LEJEUNE MILITARY RES. (USNAVY)	17	2007	ROD	Institutional Controls
NC6170022580	CAMP LEJEUNE MILITARY RES. (USNAVY)	17	2007	ROD	MNA of Groundwater
NC6170022580	CAMP LEJEUNE MILITARY RES. (USNAVY)	17	2007	ROD	Monitoring
NCD003188844	CAROLINA TRANSFORMER CO.	01	2005	ROD-A	MNA of Groundwater
NCD003188844	CAROLINA TRANSFORMER CO.	01	2005	ROD-A	Monitoring
NC1170027261	CHERRY POINT MARINE CORPS AIR STATION	04	2005	ROD	Institutional Controls
NC1170027261	CHERRY POINT MARINE CORPS AIR STATION	04	2005	ROD	MNA of Groundwater
NC1170027261	CHERRY POINT MARINE CORPS AIR STATION	04	2005	ROD	Monitoring
NC1170027261	CHERRY POINT MARINE CORPS AIR STATION	05	2006	ROD	Institutional Controls
NC1170027261	CHERRY POINT MARINE CORPS AIR STATION	05	2006	ROD	MNA of Groundwater
NC1170027261	CHERRY POINT MARINE CORPS AIR STATION	05	2006	ROD	Monitoring
NC1170027261	CHERRY POINT MARINE CORPS AIR STATION	06	2006	ROD	Institutional Controls
NC1170027261	CHERRY POINT MARINE CORPS AIR STATION	06	2006	ROD	MNA of Groundwater
NC1170027261	CHERRY POINT MARINE CORPS AIR STATION	06	2006	ROD	Monitoring
NC1170027261	CHERRY POINT MARINE CORPS AIR STATION	13	2005	ROD	Institutional Controls
NC1170027261	CHERRY POINT MARINE CORPS AIR STATION	13	2005	ROD	MNA of Groundwater
NC1170027261	CHERRY POINT MARINE CORPS AIR STATION	13	2005	ROD	Monitoring
NCD095458527	FCX, INC. (STATESVILLE PLANT)	01	2006	ROD-A	Institutional Controls
NCD095458527	FCX, INC. (STATESVILLE PLANT)	01	2006	ROD-A	MNA of Groundwater
NCD095458527	FCX, INC. (STATESVILLE PLANT)	01	2006	ROD-A	Monitoring
NCD095458527	FCX, INC. (STATESVILLE PLANT)	03	2006	ESD	Bioremediation
NCD981475932	FCX, INC. (WASHINGTON PLANT)	02	2005	ROD-A	MNA of Groundwater
NCD981475932	FCX, INC. (WASHINGTON PLANT)	02	2005	ROD-A	Monitoring
NCD986187094	REASOR CHEMICAL COMPANY	01	2007	ROD-A	Institutional Controls
NCD986187094	REASOR CHEMICAL COMPANY	01	2007	ROD-A	Monitoring
South Carolina					
SCD987577913	BREWER GOLD MINE	01	2005	ROD	Pump and Treat
SCD003362217	PALMETTO WOOD PRESERVING	01	2008	ROD-A	Bioremediation
SCD003362217	PALMETTO WOOD PRESERVING	01	2008	ROD-A	Institutional Controls
SCD003362217	PALMETTO WOOD PRESERVING	01	2008	ROD-A	Monitoring
SC6170022762	PARRIS ISLAND MARINE CORPS RECRUIT DEPOT	01	2006	ROD	Institutional Controls
SC6170022762	PARRIS ISLAND MARINE CORPS RECRUIT DEPOT	01	2006	ROD	Monitoring
SC6170022762	PARRIS ISLAND MARINE CORPS RECRUIT DEPOT	05	2007	ROD	Institutional Controls
SC1890008989	SAVANNAH RIVER SITE (USDOE)	24	2005	ROD	Institutional Controls
SC1890008989	SAVANNAH RIVER SITE (USDOE)	24	2005	ROD	MNA of Groundwater

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 4, continued					
South Carolina, continued					
SC1890008989	SAVANNAH RIVER SITE (USDOE)	24	2005	ROD	Monitoring
SC1890008989	SAVANNAH RIVER SITE (USDOE)	31	2008	ROD	Institutional Controls
SC1890008989	SAVANNAH RIVER SITE (USDOE)	31	2008	ROD	MNA of Groundwater
SC1890008989	SAVANNAH RIVER SITE (USDOE)	67	2005	ROD	Monitoring
SC1890008989	SAVANNAH RIVER SITE (USDOE)	77	2007	ROD	Institutional Controls
SC1890008989	SAVANNAH RIVER SITE (USDOE)	77	2007	ROD	MNA of Groundwater
SC1890008989	SAVANNAH RIVER SITE (USDOE)	77	2007	ROD	Monitoring
SCD980558050	TOWNSEND SAW CHAIN CO.	01	2007	ESD	Institutional Controls
SCD980558050	TOWNSEND SAW CHAIN CO.	01	2007	ESD	Permeable Reactive Barrier
Tennessee					
TN1890090003	OAK RIDGE RESERVATION (USDOE)	50	2006	ROD	Institutional Controls
TN1890090003	OAK RIDGE RESERVATION (USDOE)	50	2006	ROD	Monitoring
TNN000407378	SMALLEY-PIPER	01	2008	ROD	Institutional Controls
TNN000407378	SMALLEY-PIPER	01	2008	ROD	Pump and Treat
Region 5					
Illinois					
ILD005451711	LENZ OIL SERVICE, INC.	01	2007	ESD	Institutional Controls
ILD005252432	PARSONS CASKET HARDWARE CO.	02	2005	ROD	Bioremediation
ILD005252432	PARSONS CASKET HARDWARE CO.	02	2005	ROD	Institutional Controls
ILD005252432	PARSONS CASKET HARDWARE CO.	02	2005	ROD	Monitoring
IL8143609487	SANGAMO ELECTRIC DUMP/CRAB ORCHARD NATIONAL WILDLIFE REFUGE (USDOI)	02	2007	ROD-A	Institutional Controls
IL8143609487	SANGAMO ELECTRIC DUMP/CRAB ORCHARD NATIONAL WILDLIFE REFUGE (USDOI)	02	2007	ROD-A	MNA of Groundwater
IL8143609487	SANGAMO ELECTRIC DUMP/CRAB ORCHARD NATIONAL WILDLIFE REFUGE (USDOI)	02	2007	ROD-A	Phytoremediation
IL8143609487	SANGAMO ELECTRIC DUMP/CRAB ORCHARD NATIONAL WILDLIFE REFUGE (USDOI)	02	2007	ROD-A	Pump and Treat
Indiana					
IND006418651	BENNETT STONE QUARRY	01	2006	ROD-A	Institutional Controls
IND006418651	BENNETT STONE QUARRY	01	2006	ROD-A	Pump and Treat
IND005480462	CAM-OR INC.	01	2008	ROD	Institutional Controls
IND005480462	CAM-OR INC.	01	2008	ROD	Pump and Treat
IND084259951	ENVIROCHEM CORP.	01	2006	ESD	Groundwater Containment (VEB)
IND084259951	ENVIROCHEM CORP.	01	2006	ESD	Permeable Reactive Barrier
IND980794341	LEMON LANE LANDFILL	01	2006	ROD-A	Institutional Controls
IND980794341	LEMON LANE LANDFILL	01	2006	ROD-A	Monitoring
IND980794341	LEMON LANE LANDFILL	01	2006	ROD-A	Pump and Treat
IND980614556	NEAL'S LANDFILL (BLOOMINGTON)	01	2007	ROD-A	Institutional Controls
IND980614556	NEAL'S LANDFILL (BLOOMINGTON)	01	2007	ROD-A	Pump and Treat

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 5, continued					
Michigan					
MID006007306	ALLIED PAPER, INC./PORTAGE CREEK/KALAMAZOO RIVER	02	2006	ROD	Monitoring
MID980410740	FOREST WASTE PRODUCTS	02	2005	ROD-A	Air Sparging
MID980410740	FOREST WASTE PRODUCTS	02	2005	ROD-A	Chemical Treatment
MID980410740	FOREST WASTE PRODUCTS	02	2005	ROD-A	Institutional Controls
MID980410740	FOREST WASTE PRODUCTS	02	2005	ROD-A	Monitoring
MID017418559	GRAND TRAVERSE OVERALL SUPPLY CO.	02	2008	ROD	Institutional Controls
MID017418559	GRAND TRAVERSE OVERALL SUPPLY CO.	02	2008	ROD	Monitoring
MID017418559	GRAND TRAVERSE OVERALL SUPPLY CO.	02	2008	ROD	Pump and Treat
MID980506463	K&L AVENUE LANDFILL	01	2005	ROD-A	Alternative Water Supply
MID980506463	K&L AVENUE LANDFILL	01	2005	ROD-A	Bioremediation
MID980506463	K&L AVENUE LANDFILL	01	2005	ROD-A	Institutional Controls
MID980506463	K&L AVENUE LANDFILL	01	2005	ROD-A	MNA of Groundwater
MID980506463	K&L AVENUE LANDFILL	01	2005	ROD-A	Monitoring
MID980506463	K&L AVENUE LANDFILL	01	2005	ROD-A	Pump and Treat
MIN000508192	NORTH BRONSON INDUSTRIAL SUBAREAS	01	2006	ROD	Institutional Controls
MIN000508192	NORTH BRONSON INDUSTRIAL SUBAREAS	02	2008	ROD	Institutional Controls
MIN000508192	NORTH BRONSON INDUSTRIAL SUBAREAS	02	2008	ROD	Monitoring
MIN000508192	NORTH BRONSON INDUSTRIAL SUBAREAS	02	2008	ROD	Pump and Treat
MID079300125	SPARTAN CHEMICAL CO.	00	2007	ROD	Air Sparging
MID079300125	SPARTAN CHEMICAL CO.	00	2007	ROD	Chemical Treatment
MID079300125	SPARTAN CHEMICAL CO.	00	2007	ROD	Institutional Controls
MID079300125	SPARTAN CHEMICAL CO.	00	2007	ROD	MNA of Groundwater
MID980793806	VERONA WELL FIELD	01	2008	ESD	Air Sparging
MID980793806	VERONA WELL FIELD	02	2008	ESD	Air Sparging
Minnesota					
MND985701309	FRIDLEY COMMONS PARK WELL FIELD	01	2005	ROD	Monitoring
MND980792469	LEHILLIER/MANKATO	01	2008	ESD	Institutional Controls
MN7213820908	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	07	2006	ROD-A	Pump and Treat
MN7213820908	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	07	2007	ROD-A	Institutional Controls
MN7213820908	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	07	2007	ROD-A	Monitoring
MN7213820908	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	07	2007	ROD-A	Pump and Treat
MN7213820908	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	09	2006	ROD-A	MNA of Groundwater
MN7213820908	NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	09	2006	ROD-A	Monitoring
Ohio					
OHD980610018	NEASE CHEMICAL	02	2005	ROD	Institutional Controls
OHD980610018	NEASE CHEMICAL	02	2005	ROD	MNA of Groundwater
OHD980610018	NEASE CHEMICAL	02	2005	ROD	Monitoring

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 5, continued					
Ohio, continued					
OHD980610018	NEASE CHEMICAL	02	2005	ROD	Permeable Reactive Barrier
OHD980610018	NEASE CHEMICAL	02	2005	ROD	Pump and Treat
Wisconsin					
WID980901243	LEMBERGER LANDFILL, INC.	01	2006	ESD	MNA of Groundwater
WID056247208	LEMBERGER TRANSPORT & RECYCLING	01	2006	ESD	MNA of Groundwater
WID980820070	MASTER DISPOSAL SERVICE LANDFILL	02	2007	ROD	MNA of Groundwater
WID980820070	MASTER DISPOSAL SERVICE LANDFILL	02	2007	ROD	Monitoring
WID980820070	MASTER DISPOSAL SERVICE LANDFILL	02	2007	ROD	Pump and Treat
Region 6					
Arkansas					
ARD980745665	MIDLAND PRODUCTS	01	2006	ROD-A	Institutional Controls
ARD980745665	MIDLAND PRODUCTS	01	2006	ROD-A	MNA of Groundwater
ARD980745665	MIDLAND PRODUCTS	01	2006	ROD-A	Monitoring
ARD042755231	OUACHITA NEVADA WOOD TREATER	01	2005	ROD	Bioremediation
ARD042755231	OUACHITA NEVADA WOOD TREATER	01	2005	ROD	Groundwater Containment (VEB)
ARD042755231	OUACHITA NEVADA WOOD TREATER	01	2005	ROD	Institutional Controls
ARD042755231	OUACHITA NEVADA WOOD TREATER	01	2005	ROD	MNA of Groundwater
ARD042755231	OUACHITA NEVADA WOOD TREATER	01	2005	ROD	Monitoring
Louisiana					
LA0213820533	LOUISIANA ARMY AMMUNITION PLANT	05	2007	ROD	Institutional Controls
LA0213820533	LOUISIANA ARMY AMMUNITION PLANT	05	2007	ROD	MNA of Groundwater
LA0213820533	LOUISIANA ARMY AMMUNITION PLANT	05	2007	ROD	Monitoring
New Mexico					
NMD986668911	FRUIT AVENUE PLUME	01	2006	ESD	MNA of Groundwater
NM0007271768	GRANTS CHLORINATED SOLVENTS	00	2006	ROD	Bioremediation
NM0007271768	GRANTS CHLORINATED SOLVENTS	00	2006	ROD	Chemical Treatment
NM0007271768	GRANTS CHLORINATED SOLVENTS	00	2006	ROD	Institutional Controls
NM0007271768	GRANTS CHLORINATED SOLVENTS	00	2006	ROD	MNA of Groundwater
NM0007271768	GRANTS CHLORINATED SOLVENTS	00	2006	ROD	Monitoring
NM0002271286	GRIGGS & WALNUT GROUND WATER PLUME	01	2007	ROD	Institutional Controls
NM0002271286	GRIGGS & WALNUT GROUND WATER PLUME	01	2007	ROD	Monitoring
NM0002271286	GRIGGS & WALNUT GROUND WATER PLUME	01	2007	ROD	Pump and Treat
NM0000605386	MCGAFFEY AND MAIN GROUNDWATER PLUME	00	2008	ROD	Bioremediation
NM0000605386	MCGAFFEY AND MAIN GROUNDWATER PLUME	00	2008	ROD	Institutional Controls
NM0000605386	MCGAFFEY AND MAIN GROUNDWATER PLUME	00	2008	ROD	MNA of Groundwater
NM0000605386	MCGAFFEY AND MAIN GROUNDWATER PLUME	00	2008	ROD	Monitoring

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Region 6, continued					
New Mexico, continued					
NM0000605386	MCGAFFEY AND MAIN GROUNDWATER PLUME	00	2008	ROD	Pump and Treat
NMD986670156	NORTH RAILROAD AVENUE PLUME	01	2008	ESD	Bioremediation
Oklahoma					
OKD980620983	COMPASS INDUSTRIES (AVERY DRIVE)	01	2006	ESD	Institutional Controls
OKD082471988	HUDSON REFINERY	01	2008	ROD	Institutional Controls
OKD082471988	HUDSON REFINERY	01	2008	ROD	Monitoring
OKD980629844	TAR CREEK (OTTAWA COUNTY)	04	2008	ROD	Alternative Water Supply
OKD980629844	TAR CREEK (OTTAWA COUNTY)	04	2008	ROD	Institutional Controls
Texas					
TX7572024605	AIR FORCE PLANT #4 (GENERAL DYNAMICS)	01	2007	ESD	Institutional Controls
TX7572024605	AIR FORCE PLANT #4 (GENERAL DYNAMICS)	01	2007	ESD	MNA of Groundwater
TXD007330053	GARLAND CREOSOTING	01	2006	ROD	Institutional Controls
TXD007330053	GARLAND CREOSOTING	01	2006	ROD	MNA of Groundwater
TXD007330053	GARLAND CREOSOTING	01	2006	ROD	Monitoring
TXD007330053	GARLAND CREOSOTING	01	2006	ROD	Pump and Treat
TXD980748453	GENEVA INDUSTRIES/FUHRMANN ENERGY	01	2007	ESD	Institutional Controls
TXD050299577	HART CREOSOTING COMPANY	01	2006	ROD	Institutional Controls
TXD050299577	HART CREOSOTING COMPANY	01	2006	ROD	MNA of Groundwater
TXD050299577	HART CREOSOTING COMPANY	01	2006	ROD	Monitoring
TXD050299577	HART CREOSOTING COMPANY	01	2006	ROD	Pump and Treat
TXD008096240	JASPER CREOSOTING COMPANY INC.	01	2006	ROD	Institutional Controls
TXD008096240	JASPER CREOSOTING COMPANY INC.	01	2006	ROD	MNA of Groundwater
TXD008096240	JASPER CREOSOTING COMPANY INC.	01	2006	ROD	Monitoring
TXD008096240	JASPER CREOSOTING COMPANY INC.	01	2006	ROD	Pump and Treat
TX6213820529	LONGHORN ARMY AMMUNITION PLANT	00	2006	ROD	Institutional Controls
TX6213820529	LONGHORN ARMY AMMUNITION PLANT	00	2006	ROD	MNA of Groundwater
TX6213820529	LONGHORN ARMY AMMUNITION PLANT	00	2006	ROD	Monitoring
TX4890110527	PANTEX PLANT (USDOE)	00	2008	ROD	Bioremediation
TX4890110527	PANTEX PLANT (USDOE)	00	2008	ROD	Institutional Controls
TX4890110527	PANTEX PLANT (USDOE)	00	2008	ROD	Pump and Treat
TXD980699656	PESES CHEMICAL CO.	01	2007	ESD	Institutional Controls
TXD980873350	PETRO-CHEMICAL SYSTEMS, INC. (TURTLE BAYOU)	02	2006	ROD-A	Chemical Treatment
TXD980873350	PETRO-CHEMICAL SYSTEMS, INC. (TURTLE BAYOU)	02	2006	ROD-A	Institutional Controls
TXD980873350	PETRO-CHEMICAL SYSTEMS, INC. (TURTLE BAYOU)	02	2006	ROD-A	Monitoring
TXSFN0605177	STATE ROAD 114 GROUNDWATER PLUME	00	2008	ROD	Alternative Water Supply
TXSFN0605177	STATE ROAD 114 GROUNDWATER PLUME	00	2008	ROD	Institutional Controls
TXSFN0605177	STATE ROAD 114 GROUNDWATER PLUME	00	2008	ROD	Monitoring
TXSFN0605177	STATE ROAD 114 GROUNDWATER PLUME	00	2008	ROD	Pump and Treat

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 7					
Iowa					
IA7213820445	IOWA ARMY AMMUNITION PLANT	03	2005	ROD	Alternative Water Supply
IA7213820445	IOWA ARMY AMMUNITION PLANT	03	2005	ROD	Bioremediation
IA7213820445	IOWA ARMY AMMUNITION PLANT	03	2005	ROD	Institutional Controls
IA7213820445	IOWA ARMY AMMUNITION PLANT	03	2005	ROD	MNA of Groundwater
IA7213820445	IOWA ARMY AMMUNITION PLANT	03	2005	ROD	Monitoring
IA7213820445	IOWA ARMY AMMUNITION PLANT	04	2008	ROD	Institutional Controls
IA7213820445	IOWA ARMY AMMUNITION PLANT	04	2008	ROD	Monitoring
IA0001610963	RAILROAD AVENUE GROUNDWATER CONTAMINATION	01	2005	ROD	Institutional Controls
IA0001610963	RAILROAD AVENUE GROUNDWATER CONTAMINATION	01	2005	ROD	MNA of Groundwater
IA0001610963	RAILROAD AVENUE GROUNDWATER CONTAMINATION	01	2005	ROD	Monitoring
IA0001610963	RAILROAD AVENUE GROUNDWATER CONTAMINATION	02	2006	ROD	Institutional Controls
IA0001610963	RAILROAD AVENUE GROUNDWATER CONTAMINATION	02	2006	ROD	MNA of Groundwater
IA0001610963	RAILROAD AVENUE GROUNDWATER CONTAMINATION	02	2006	ROD	Monitoring
Kansas					
KSD031349624	CHEMICAL COMMODITIES, INC.	01	2005	ROD	Chemical Treatment
KSD031349624	CHEMICAL COMMODITIES, INC.	01	2005	ROD	Institutional Controls
KSD031349624	CHEMICAL COMMODITIES, INC.	01	2005	ROD	MNA of Groundwater
KSD031349624	CHEMICAL COMMODITIES, INC.	01	2005	ROD	Monitoring
KSD980741862	CHEROKEE COUNTY	03	2006	ROD-A	Monitoring
KSD980741862	CHEROKEE COUNTY	04	2006	ROD-A	Monitoring
KS6214020756	FORT RILEY	03	2008	ROD	Institutional Controls
KS6214020756	FORT RILEY	03	2008	ROD	MNA of Groundwater
KS6214020756	FORT RILEY	03	2008	ROD	Monitoring
KS6214020756	FORT RILEY	04	2005	ROD	Institutional Controls
KS6214020756	FORT RILEY	04	2005	ROD	MNA of Groundwater
KS6214020756	FORT RILEY	04	2005	ROD	Monitoring
KS6214020756	FORT RILEY	05	2006	ROD	Institutional Controls
KS6214020756	FORT RILEY	05	2006	ROD	MNA of Groundwater
KS6214020756	FORT RILEY	05	2006	ROD	Monitoring
KSD980631766	OBEE ROAD	02	2007	ROD	Alternative Water Supply
KSD980631766	OBEE ROAD	02	2007	ROD	Institutional Controls
KSD980631766	OBEE ROAD	02	2007	ROD	Monitoring
KSD980631766	OBEE ROAD	02	2007	ROD	Pump and Treat
KSD000829846	PESTER REFINERY CO.	01	2005	ROD-A	Institutional Controls
KSD000829846	PESTER REFINERY CO.	01	2005	ROD-A	Monitoring
KSD000829846	PESTER REFINERY CO.	01	2005	ROD-A	Pump and Treat
KSD984985929	WRIGHT GROUND WATER CONTAMINATION	01	2007	ROD	MNA of Groundwater

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 7, continued					
Kansas, continued					
KSD984985929	WRIGHT GROUND WATER CONTAMINATION	01	2007	ROD	Monitoring
Missouri					
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	01	2008	ROD	Bioremediation
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	01	2008	ROD	Institutional Controls
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	01	2008	ROD	MNA of Groundwater
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	01	2008	ROD	Monitoring
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	01	2008	ROD	Pump and Treat
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	02	2007	ROD	MNA of Groundwater
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	02	2007	ROD	Monitoring
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	02	2007	ROD	Pump and Treat
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	03	2007	ROD	Bioremediation
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	03	2007	ROD	Engineering Control
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	03	2007	ROD	Institutional Controls
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	03	2007	ROD	MNA of Groundwater
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	03	2007	ROD	Monitoring
MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	03	2007	ROD	Pump and Treat
MOD980965982	MISSOURI ELECTRIC WORKS	02	2005	ROD	Alternative Water Supply
MOD980965982	MISSOURI ELECTRIC WORKS	02	2005	ROD	Bioremediation
MOD980965982	MISSOURI ELECTRIC WORKS	02	2005	ROD	Institutional Controls
MOD980965982	MISSOURI ELECTRIC WORKS	02	2005	ROD	MNA of Groundwater
MOD980965982	MISSOURI ELECTRIC WORKS	02	2005	ROD	Monitoring
MOD981717036	OAK GROVE VILLAGE WELL	01	2007	ROD	Alternative Water Supply
MOD981717036	OAK GROVE VILLAGE WELL	01	2007	ROD	Institutional Controls
MOD981717036	OAK GROVE VILLAGE WELL	01	2007	ROD	Monitoring
MOD981720246	RIVERFRONT	05	2007	ROD	Institutional Controls
MOD981720246	RIVERFRONT	05	2007	ROD	Monitoring
MOD980633176	ST. LOUIS AIRPORT/HAZELWOOD INTERIM STORAGE/FUTURA COATINGS CO.	01	2005	ROD	Monitoring
MO3210090004	WELDON SPRING QUARRY/PLANT/PITS (USDOE/ARMY)	06	2005	ESD	Institutional Controls
MO3210090004	WELDON SPRING QUARRY/PLANT/PITS (USDOE/ARMY)	06	2005	ESD	Monitoring
MOD079900932	WESTLAKE LANDFILL	01	2008	ROD	Institutional Controls
MOD079900932	WESTLAKE LANDFILL	01	2008	ROD	Monitoring
MOD079900932	WESTLAKE LANDFILL	02	2008	ROD	Institutional Controls
MOD079900932	WESTLAKE LANDFILL	02	2008	ROD	Monitoring
Nebraska					
NED981713837	10TH STREET SITE	02	2005	ROD	Air Sparging
NED981713837	10TH STREET SITE	02	2005	ROD	Chemical Treatment
NED981713837	10TH STREET SITE	02	2005	ROD	Institutional Controls

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 7, continued					
Nebraska, continued					
NED981713837	10TH STREET SITE	02	2005	ROD	Pump and Treat
NED981713829	BRUNO CO-OP ASSOCIATION/ASSOCIATED PROPERTIES	01	2005	ESD	Institutional Controls
NED980862668	HASTINGS GROUND WATER CONTAMINATION	02	2006	ROD	Institutional Controls
NED980862668	HASTINGS GROUND WATER CONTAMINATION	02	2006	ROD	MNA of Groundwater
NED980862668	HASTINGS GROUND WATER CONTAMINATION	02	2006	ROD	Monitoring
NED980862668	HASTINGS GROUND WATER CONTAMINATION	02	2006	ROD	Pump and Treat
NED980862668	HASTINGS GROUND WATER CONTAMINATION	06	2007	ROD	Bioremediation
NED980862668	HASTINGS GROUND WATER CONTAMINATION	06	2007	ROD	Pump and Treat
NED980862668	HASTINGS GROUND WATER CONTAMINATION	12	2008	ROD-A	Chemical Treatment
NED980862668	HASTINGS GROUND WATER CONTAMINATION	12	2008	ROD-A	Institutional Controls
NED986369247	OGALLALA GROUND WATER CONTAMINATION	02	2006	ROD	Alternative Water Supply
NED986369247	OGALLALA GROUND WATER CONTAMINATION	02	2006	ROD	Chemical Treatment
NED986369247	OGALLALA GROUND WATER CONTAMINATION	02	2006	ROD	Institutional Controls
NED986369247	OGALLALA GROUND WATER CONTAMINATION	02	2006	ROD	Monitoring
NEN000704456	PARKVIEW WELL	01	2006	ROD	Alternative Water Supply
NEN000704456	PARKVIEW WELL	01	2006	ROD	Institutional Controls
NEN000704456	PARKVIEW WELL	01	2006	ROD	MNA of Groundwater
NEN000704456	PARKVIEW WELL	01	2006	ROD	Monitoring
NEN000704456	PARKVIEW WELL	01	2006	ROD	Pump and Treat
NEN000704456	PARKVIEW WELL	02	2007	ROD	Chemical Treatment
NEN000704456	PARKVIEW WELL	02	2007	ROD	Institutional Controls
NEN000704456	PARKVIEW WELL	02	2007	ROD	Monitoring
Region 8					
Colorado					
COD980717938	CALIFORNIA GULCH	11	2005	ROD	Monitoring
COD981551427	CAPTAIN JACK MILL	01	2008	ROD	Monitoring
C07890010526	ROCKY FLATS PLANT (USDOE)	00	2006	ROD	Institutional Controls
C07890010526	ROCKY FLATS PLANT (USDOE)	00	2006	ROD	Monitoring
C05210020769	ROCKY MOUNTAIN ARSENAL (USARMY)	03	2006	ROD-A	Groundwater Containment (VEB)
C05210020769	ROCKY MOUNTAIN ARSENAL (USARMY)	03	2006	ROD-A	Pump and Treat
Montana					
MT0007623052	LOCKWOOD SOLVENT GROUND WATER PLUME	01	2005	ROD	Bioremediation
MT0007623052	LOCKWOOD SOLVENT GROUND WATER PLUME	01	2005	ROD	Institutional Controls
MT0007623052	LOCKWOOD SOLVENT GROUND WATER PLUME	01	2005	ROD	Monitoring
MT0007623052	LOCKWOOD SOLVENT GROUND WATER PLUME	01	2005	ROD	Permeable Reactive Barrier
MTD980717565	MILLTOWN RESERVOIR SEDIMENTS	02	2005	ROD	Alternative Water Supply
MTD980717565	MILLTOWN RESERVOIR SEDIMENTS	02	2005	ROD	Institutional Controls

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 8, continued					
Montana, continued					
MTD980717565	MILLTOWN RESERVOIR SEDIMENTS	02	2005	ROD	MNA of Groundwater
MTD980717565	MILLTOWN RESERVOIR SEDIMENTS	02	2005	ROD	Monitoring
MTD980502777	SILVER BOW CREEK/BUTTE AREA	08	2006	ROD	Institutional Controls
MTD980502777	SILVER BOW CREEK/BUTTE AREA	08	2006	ROD	Monitoring
MTD980502777	SILVER BOW CREEK/BUTTE AREA	08	2006	ROD	Pump and Treat
MTSFN7578012	UPPER TENMILE CREEK MINING AREA	04	2008	ROD-A	Alternative Water Supply
North Dakota					
NDD980716963	ARSENIC TRIOXIDE SITE	01	2007	ESD	Alternative Water Supply
NDD980716963	ARSENIC TRIOXIDE SITE	01	2008	ESD	Alternative Water Supply
Utah					
UT0001119296	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	01	2006	ROD	Bioremediation
UT0001119296	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	01	2006	ROD	Institutional Controls
UT0001119296	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	01	2006	ROD	Monitoring
UT0001119296	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	02	2007	ROD	Alternative Water Supply
UT0001119296	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	02	2007	ROD	Bioremediation
UT0001119296	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	02	2007	ROD	Institutional Controls
UT0001119296	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	02	2007	ROD	Monitoring
UT0001119296	BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	02	2007	ROD	Pump and Treat
UT0571724350	HILL AIR FORCE BASE	05	2006	ROD	Air Sparging
UT0571724350	HILL AIR FORCE BASE	05	2006	ROD	Groundwater Containment (VEB)
UT0571724350	HILL AIR FORCE BASE	05	2006	ROD	Institutional Controls
UT0571724350	HILL AIR FORCE BASE	05	2006	ROD	MNA of Groundwater
UT0571724350	HILL AIR FORCE BASE	05	2006	ROD	Monitoring
UT0571724350	HILL AIR FORCE BASE	05	2006	ROD	Pump and Treat
UT0571724350	HILL AIR FORCE BASE	08	2005	ROD	Institutional Controls
UT0571724350	HILL AIR FORCE BASE	08	2005	ROD	MNA of Groundwater
UT0571724350	HILL AIR FORCE BASE	08	2005	ROD	Monitoring
UT0571724350	HILL AIR FORCE BASE	08	2005	ROD	Pump and Treat
UT0571724350	HILL AIR FORCE BASE	12	2008	ROD	Institutional Controls
UT0571724350	HILL AIR FORCE BASE	12	2008	ROD	Permeable Reactive Barrier
UT0571724350	HILL AIR FORCE BASE	12	2008	ROD	Pump and Treat
UT3213820894	TOOELE ARMY DEPOT (NORTH AREA)	09	2008	ROD	Institutional Controls
Wyoming					
WY5571924179	F.E. WARREN AIR FORCE BASE	02	2007	ROD-A	MNA of Groundwater
WY5571924179	F.E. WARREN AIR FORCE BASE	02	2006	ROD	Bioremediation
WY5571924179	F.E. WARREN AIR FORCE BASE	02	2006	ROD	Chemical Treatment
WY5571924179	F.E. WARREN AIR FORCE BASE	02	2006	ROD	Institutional Controls

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 8, continued					
Wyoming, continued					
WY5571924179	F.E. WARREN AIR FORCE BASE	02	2006	ROD	MNA of Groundwater
WY5571924179	F.E. WARREN AIR FORCE BASE	02	2006	ROD	Monitoring
WY5571924179	F.E. WARREN AIR FORCE BASE	02	2006	ROD	Permeable Reactive Barrier
WY5571924179	F.E. WARREN AIR FORCE BASE	11	2005	ROD-A	Chemical Treatment
WY5571924179	F.E. WARREN AIR FORCE BASE	11	2005	ROD-A	MNA of Groundwater
WY5571924179	F.E. WARREN AIR FORCE BASE	11	2005	ROD-A	Monitoring
Region 9					
Arizona					
AZD008399263	APACHE POWDER CO.	01	2005	ROD-A	Institutional Controls
AZD008399263	APACHE POWDER CO.	01	2005	ROD-A	MNA of Groundwater
AZD008399263	APACHE POWDER CO.	01	2005	ROD-A	Monitoring
AZD980496780	NINETEENTH AVENUE LANDFILL	01	2006	ESD	Institutional Controls
California					
CA2170023236	ALAMEDA NAVAL AIR STATION	01	2007	ROD	Bioremediation
CA2170023236	ALAMEDA NAVAL AIR STATION	01	2007	ROD	Chemical Treatment
CA2170023236	ALAMEDA NAVAL AIR STATION	01	2007	ROD	Institutional Controls
CA2170023236	ALAMEDA NAVAL AIR STATION	01	2007	ROD	MNA of Groundwater
CA2170023236	ALAMEDA NAVAL AIR STATION	01	2007	ROD	Monitoring
CA2170023236	ALAMEDA NAVAL AIR STATION	06	2006	ROD	Bioremediation
CA2170023236	ALAMEDA NAVAL AIR STATION	06	2006	ROD	Chemical Treatment
CA2170023236	ALAMEDA NAVAL AIR STATION	06	2006	ROD	Institutional Controls
CA2170023236	ALAMEDA NAVAL AIR STATION	06	2006	ROD	Monitoring
CA2170023236	ALAMEDA NAVAL AIR STATION	11	2007	ROD	Chemical Treatment
CA2170023236	ALAMEDA NAVAL AIR STATION	11	2007	ROD	Institutional Controls
CA2170023236	ALAMEDA NAVAL AIR STATION	11	2007	ROD	Monitoring
CA2170023236	ALAMEDA NAVAL AIR STATION	14	2007	ROD	Bioremediation
CA2170023236	ALAMEDA NAVAL AIR STATION	14	2007	ROD	Institutional Controls
CA2170023236	ALAMEDA NAVAL AIR STATION	14	2007	ROD	Monitoring
CA2170023236	ALAMEDA NAVAL AIR STATION	15	2008	ROD	Chemical Treatment
CA2170023236	ALAMEDA NAVAL AIR STATION	15	2008	ROD	Monitoring
CA2170023236	ALAMEDA NAVAL AIR STATION	16	2007	ROD	Bioremediation
CA2170023236	ALAMEDA NAVAL AIR STATION	16	2007	ROD	Chemical Treatment
CA2170023236	ALAMEDA NAVAL AIR STATION	16	2007	ROD	Institutional Controls
CA8170024261	BARSTOW MARINE CORPS LOGISTICS BASE	02	2006	ROD	Air Sparging
CA8170024261	BARSTOW MARINE CORPS LOGISTICS BASE	02	2006	ROD	Institutional Controls
CAD048645444	BECKMAN INSTRUMENTS (PORTERVILLE PLANT)	01	2005	ROD-A	Institutional Controls
CAD048645444	BECKMAN INSTRUMENTS (PORTERVILLE PLANT)	01	2005	ROD-A	MNA of Groundwater

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 9, continued					
California, continued					
CAD048645444	BECKMAN INSTRUMENTS (PORTERVILLE PLANT)	01	2005	ROD-A	Monitoring
CAD052384021	BROWN & BRYANT, INC. (ARVIN PLANT)	02	2007	ROD	Institutional Controls
CAD052384021	BROWN & BRYANT, INC. (ARVIN PLANT)	02	2007	ROD	MNA of Groundwater
CAD052384021	BROWN & BRYANT, INC. (ARVIN PLANT)	02	2007	ROD	Monitoring
CAD052384021	BROWN & BRYANT, INC. (ARVIN PLANT)	02	2007	ROD	Pump and Treat
CA3570024551	CASTLE AIR FORCE BASE (6 AREAS)	01	2006	ROD	Alternative Water Supply
CA3570024551	CASTLE AIR FORCE BASE (6 AREAS)	01	2006	ROD	Institutional Controls
CA3570024551	CASTLE AIR FORCE BASE (6 AREAS)	01	2006	ROD	Monitoring
CA3570024551	CASTLE AIR FORCE BASE (6 AREAS)	04	2005	ROD	Monitoring
CA1570024504	EDWARDS AIR FORCE BASE	04	2007	ROD	Institutional Controls
CA1570024504	EDWARDS AIR FORCE BASE	04	2007	ROD	Monitoring
CA1570024504	EDWARDS AIR FORCE BASE	06	2006	ROD	Chemical Treatment
CA1570024504	EDWARDS AIR FORCE BASE	06	2006	ROD	Institutional Controls
CA1570024504	EDWARDS AIR FORCE BASE	06	2006	ROD	Monitoring
CA6170023208	EL TORO MARINE CORPS AIR STATION	05	2008	ROD	Monitoring
CA7210020676	FORT ORD	12	2008	ROD	Alternative Water Supply
CA7210020676	FORT ORD	12	2008	ROD	Bioremediation
CA7210020676	FORT ORD	12	2008	ROD	Institutional Controls
CA7210020676	FORT ORD	12	2008	ROD	MNA of Groundwater
CA7210020676	FORT ORD	12	2008	ROD	Monitoring
CA7210020676	FORT ORD	12	2008	ROD	Pump and Treat
CAD071530380	FRONTIER FERTILIZER	01	2006	ROD	Bioremediation
CAD071530380	FRONTIER FERTILIZER	01	2006	ROD	Institutional Controls
CAD071530380	FRONTIER FERTILIZER	01	2006	ROD	Monitoring
CA9800013030	JET PROPULSION LABORATORY (NASA)	01	2007	ROD	Pump and Treat
CA9800013030	JET PROPULSION LABORATORY (NASA)	03	2007	ROD	Pump and Treat
CAD983618893	LAVA CAP MINE	02	2008	ROD	Alternative Water Supply
CAD983618893	LAVA CAP MINE	02	2008	ROD	Institutional Controls
CAD983618893	LAVA CAP MINE	02	2008	ROD	Monitoring
CA2890090002	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	2007	ROD-A	Groundwater Containment (VEB)
CA2890090002	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	2007	ROD-A	Institutional Controls
CA2890090002	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	2007	ROD-A	MNA of Groundwater
CA2890090002	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	2007	ROD-A	Monitoring
CA2890090002	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	2007	ROD-A	Pump and Treat
CA2890090002	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	2008	ROD	Institutional Controls
CA2890090002	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	2008	ROD	MNA of Groundwater
CA2890090002	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	2008	ROD	Monitoring

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 9, continued					
California, continued					
CA2890090002	LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	2008	ROD	Pump and Treat
CA4570024337	MCCLELLAN AIR FORCE BASE (GROUND WATER CONTAMINATION)	01	2007	ROD	Institutional Controls
CA4570024337	MCCLELLAN AIR FORCE BASE (GROUND WATER CONTAMINATION)	01	2007	ROD	Monitoring
CA4570024337	MCCLELLAN AIR FORCE BASE (GROUND WATER CONTAMINATION)	01	2007	ROD	Pump and Treat
CAD980737092	PEMACO MAYWOOD	01	2005	ROD	Institutional Controls
CAD980737092	PEMACO MAYWOOD	01	2005	ROD	MNA of Groundwater
CAD980737092	PEMACO MAYWOOD	01	2005	ROD	Monitoring
CAD980737092	PEMACO MAYWOOD	01	2005	ROD	Multi-Phase Extraction
CAD980737092	PEMACO MAYWOOD	01	2005	ROD	Pump and Treat
CAD980736151	PURITY OIL SALES, INC.	02	2006	ROD-A	Monitoring
CAD029452141	SELMA TREATING CO.	01	2005	ESD	Bioremediation
CAD981171523	SOLA OPTICAL USA, INC.	01	2007	ROD-A	Institutional Controls
CAD981171523	SOLA OPTICAL USA, INC.	01	2007	ROD-A	MNA of Groundwater
CAD981171523	SOLA OPTICAL USA, INC.	01	2007	ROD-A	Monitoring
CAD063020143	VALLEY WOOD PRESERVING, INC.	01	2007	ROD-A	MNA of Groundwater
CAD063020143	VALLEY WOOD PRESERVING, INC.	01	2007	ROD-A	Monitoring
CAD063020143	VALLEY WOOD PRESERVING, INC.	01	2007	ROD-A	Unspecified Physical/Chemical Treatment
Region 10					
Alaska					
AK6214522157	FORT RICHARDSON (USARMY)	05	2005	ROD	Institutional Controls
AK6214522157	FORT RICHARDSON (USARMY)	05	2005	ROD	MNA of Groundwater
AK6214522157	FORT RICHARDSON (USARMY)	05	2005	ROD	Monitoring
Idaho					
ID4890008952	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	16	2008	ROD	Institutional Controls
ID4890008952	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	16	2008	ROD	Monitoring
ID4890008952	IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	28	2007	ROD	Institutional Controls
Oregon					
ORD009412677	REYNOLDS METALS COMPANY	02	2006	ROD	Institutional Controls
ORD009412677	REYNOLDS METALS COMPANY	02	2006	ROD	Monitoring
ORD009042532	TAYLOR LUMBER AND TREATING	01	2005	ROD	Groundwater Containment (VEB)
ORD009042532	TAYLOR LUMBER AND TREATING	01	2005	ROD	Institutional Controls
ORD009042532	TAYLOR LUMBER AND TREATING	01	2005	ROD	Pump and Treat
Washington					
WAD009624453	BOOMSNUB/AIRCO	01	2006	ESD	Institutional Controls
WA7210090067	FORT LEWIS LOGISTICS CENTER	01	2007	ESD	Pump and Treat
WA1890090078	HANFORD 200-AREA (USDOE)	45	2008	ROD	Institutional Controls
WA1890090078	HANFORD 200-AREA (USDOE)	45	2008	ROD	MNA of Groundwater

EPA ID	Site Name	Operable Unit	FY	Decision Document Type	Technology Type
Region 10, continued					
Washington, continued					
WA1890090078	HANFORD 200-AREA (USDOE)	45	2008	ROD	Monitoring
WA1890090078	HANFORD 200-AREA (USDOE)	45	2008	ROD	Pump and Treat
WAD980978753	MIDNITE MINE	01	2006	ROD	MNA of Groundwater
WAD980978753	MIDNITE MINE	01	2006	ROD	Monitoring
WAD980978753	MIDNITE MINE	01	2006	ROD	Pump and Treat
WAD988466355	MOSES LAKE WELLFIELD CONTAMINATION	01	2008	ROD	Alternative Water Supply
WAD988466355	MOSES LAKE WELLFIELD CONTAMINATION	01	2008	ROD	Institutional Controls
WAD988466355	MOSES LAKE WELLFIELD CONTAMINATION	01	2008	ROD	Monitoring
WAD988466355	MOSES LAKE WELLFIELD CONTAMINATION	01	2008	ROD	Pump and Treat
WA5170090059	NAVAL AIR STATION, WHIDBEY ISLAND (AULT FIELD)	01	2008	ESD	Institutional Controls
WA2170023418	PUGET SOUND NAVAL SHIPYARD COMPLEX	06	2005	ROD	Institutional Controls
WA2170023418	PUGET SOUND NAVAL SHIPYARD COMPLEX	06	2005	ROD	Monitoring

Appendix G: Remedy Selection Summary Matrix FY 2005–08

Additional information regarding these sites, including site progress profiles, can be obtained by searching the Superfund Information System website at <http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm>. Additional information regarding treatment technologies is available from the EPA CLU-IN website at www.clu-in.org.

Site Name	Operable Unit	FY	Decision Document Type	Source Control								Groundwater								
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action	Other†
Region I																				
Connecticut																				
DURHAM MEADOWS	01	2005	ROD	○			○		○			○					○	○	○	
NEW LONDON SUBMARINE BASE	02	2007	ROD						○								○	○		
NEW LONDON SUBMARINE BASE	03	2005	ROD							○										
NEW LONDON SUBMARINE BASE	03	2007	ESD			○			○											
NEW LONDON SUBMARINE BASE	09	2005	ROD														○	○		
NEW LONDON SUBMARINE BASE	09	2008	ROD														○	○		
OLD SOUTHTON LANDFILL	02	2006	ROD														○	○		
SOLVENTS RECOVERY SERVICE OF NEW ENGLAND	03	2005	ROD		○	○	○		○			○		○			○	○		
Massachusetts																				
BAIRD & MCGUIRE	01	2005	ESD						○			○					○			
BLACKBURN & UNION PRIVILEGES	01	2008	ROD				○	○	○			○					○	○		
FORT DEVENS	01	2005	ESD									○								
FORT DEVENS	06	2006	ESD								○						○			
GROVELAND WELLS	02	2007	ESD		○															
HANSCOM FIELD/HANSCOM AIR FORCE BASE	01	2007	ROD					○				○	○				○	○		
HATHEWAY & PATTERSON	01	2005	ROD	○		○	○		○								○	○		
INDUSTRI-PLEX	02	2006	ROD			○	○	○	○		○	○	○				○	○		
MATERIALS TECHNOLOGY LABORATORY (USARMY)	02	2005	ROD																	
NATICK LABORATORY ARMY RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER	03	2007	ROD								○									
NATICK LABORATORY ARMY RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER	04	2008	ROD							○										○
NYANZA CHEMICAL WASTE DUMP	02	2006	ESD		○		○										○	○		
OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	01	2006	ROD									○					○	○		

* In this appendix, "Source control other" includes engineering controls and population relocation.

† In this appendix, "Groundwater other" includes engineering controls that do not fall into one of the other categories.

Site Name	Operable Unit	FY	Decision Document Type	Source Control								Groundwater											
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action	Other†			
Region I, continued																							
Massachusetts, continued																							
OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	09	2008	ESD												●			●	●				
OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	13	2006	ROD															●	●				
OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	16	2007	ROD			●			●					●				●					
OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	17	2006	ROD																			●	
OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	18	2006	ROD																			●	
OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	24	2006	ROD															●	●				
OTIS AIR NATIONAL GUARD BASE/CAMP EDWARDS	25	2007	ROD											●				●	●				
SILRESIM CHEMICAL CORP.	01	2008	ESD		●																		
SOUTH WEYMOUTH NAVAL AIR STATION	01	2007	ROD			●			●									●	●				
SOUTH WEYMOUTH NAVAL AIR STATION	05	2006	ROD							●												●	
SOUTH WEYMOUTH NAVAL AIR STATION	07	2008	ROD			●	●	●											●				
SOUTH WEYMOUTH NAVAL AIR STATION	10	2006	ROD			●		●	●										●				
SOUTH WEYMOUTH NAVAL AIR STATION	13	2005	ROD							●													
SOUTH WEYMOUTH NAVAL AIR STATION	15	2006	ROD							●												●	
SOUTH WEYMOUTH NAVAL AIR STATION	16	2008	ROD							●													
SOUTH WEYMOUTH NAVAL AIR STATION	17	2008	ROD							●												●	
SOUTH WEYMOUTH NAVAL AIR STATION	18	2008	ROD							●													
SOUTH WEYMOUTH NAVAL AIR STATION	19	2008	ROD							●												●	
SUTTON BROOK DISPOSAL AREA	01	2007	ROD			●		●	●					●		●	●	●	●				
W.R. GRACE & CO., INC. (ACTON PLANT)	03	2005	ROD	●		●	●		●				●		●		●	●					
WELLS G&H	03	2006	ROD			●	●	●	●		●					●	●	●					
Maine																							
EASTLAND WOOLEN MILL	01	2006	ROD-A											●				●	●	●			
WEST SITE/HOWS CORNERS	02	2006	ROD												●				●				
WINTHROP LANDFILL	01	2007	ESD												●				●				
New Hampshire																							
KEEFE ENVIRONMENTAL SERVICES (KES)	02	2005	ESD	●			●																

Site Name	Operable Unit	FY	Decision Document Type	Source Control								Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action
Region 1, continued																			
New Hampshire, continued																			
NEW HAMPSHIRE PLATING CO.	01	2007	ESD	○															
OTTATI & GOSS/KINGSTON STEEL DRUM	01	2007	ROD-A										○				○	○	
TROY MILLS LANDFILL	01	2005	ROD		○	○			○					○			○	○	
Rhode Island																			
NEWPORT NAVAL EDUCATION & TRAINING CENTER	01	2008	ESD						○								○		
STAMINA MILLS, INC.	01	2007	ESD						○								○		
WEST KINGSTON TOWN DUMP/URI DISPOSAL AREA	01	2006	ROD		○			○	○				○	○			○	○	
Vermont																			
ELIZABETH MINE	01	2006	ROD			○		○	○								○	○	
ELIZABETH MINE	01	2008	ESD			○													
POWNA TANNERY	01	2007	ESD						○								○		
Region 2																			
New Jersey																			
BOG CREEK FARM	01	2005	ESD	○			○												
BOG CREEK FARM	02	2005	ROD-A									○	○				○	○	
BRICK TOWNSHIP LANDFILL	01	2008	ROD			○			○								○	○	
BRIDGEPORT RENTAL & OIL SERVICES	02	2006	ROD		○	○	○	○	○		○	○	○				○		
DAYCO CORP./L.E CARPENTER CO.	01	2007	ESD				○												
DOVER MUNICIPAL WELL 4	02	2005	ROD	○	○		○						○	○			○	○	
EMMELL'S SEPTIC LANDFILL	02	2008	ROD				○					○	○	○			○		
EVOR PHILLIPS LEASING	02	2008	ROD			○	○		○										
FEDERAL CREOSOTE	02	2008	ESD						○										
GLEN RIDGE RADIUM SITE	02	2005	ROD																○
GRAND STREET MERCURY	01	2005	ESD																○
ICELAND COIN LAUNDRY AREA GW PLUME	01	2006	ROD		○								○				○	○	
MARTIN AARON, INC.	01	2005	ROD			○	○		○			○					○	○	
MIDDLESEX SAMPLING PLANT (USDOE)	01	2005	ROD				○					○	○				○	○	
MONITOR DEVICES, INC./INTERCIRCUITS, INC.	01	2005	ROD									○	○				○	○	
MONITOR DEVICES, INC./INTERCIRCUITS, INC.	02	2006	ROD							○									
MONTCLAIR/WEST ORANGE RADIUM SITE	02	2005	ROD																○

Site Name	Operable Unit	FY	Decision Document Type	Source Control							Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply
Region 2, continued																		
New Jersey, continued																		
MYERS PROPERTY	02	2005	ROD															
NAVAL WEAPONS STATION EARLE (SITE A)	06	2006	ROD															
NAVAL WEAPONS STATION EARLE (SITE A)	07	2007	ROD															
NAVAL WEAPONS STATION EARLE (SITE A)	08	2005	ROD															
NAVAL WEAPONS STATION EARLE (SITE A)	09	2007	ROD															
PICATINNY ARSENAL (USARMY)	02	2005	ROD															
PICATINNY ARSENAL (USARMY)	02	2008	ROD															
PICATINNY ARSENAL (USARMY)	03	2005	ROD															
PICATINNY ARSENAL (USARMY)	04	2005	ROD															
PICATINNY ARSENAL (USARMY) - Area E Groundwater/Site 22	02	2007	ROD															
PICATINNY ARSENAL (USARMY) - Site 180 (PICA 093) Waste Burial Area	02	2007	ROD															
PICATINNY ARSENAL (USARMY) - Site 25/26 Soil	02	2007	ROD															
POHATCONG VALLEY GROUND WATER CONTAMINATION	01	2006	ROD															
PUCHACK WELL FIELD	01	2006	ROD															
ROCKAWAY BOROUGH WELL FIELD	03	2007	ROD															
ROCKAWAY BOROUGH WELL FIELD	04	2006	ROD															
U.S. RADIUM CORP.	03	2006	ROD															
VENTRON/VELSICOL	01	2007	ROD															
WALDICK AEROSPACE DEVICES, INC.	02	2008	ROD-A															
WELSBACH & GENERAL GAS MANTLE (CAMDEN RADIATION)	03	2005	ROD															
WHITE CHEMICAL CORP.	02	2005	ROD															
New York																		
BROOKHAVEN NATIONAL LABORATORY (USDOE)	03	2005	ESD															
BROOKHAVEN NATIONAL LABORATORY (USDOE)	05	2005	ROD															
BROOKHAVEN NATIONAL LABORATORY (USDOE)	07	2005	ROD															
BROOKHAVEN NATIONAL LABORATORY (USDOE)	08	2007	ROD															
COMPUTER CIRCUITS	01	2008	ROD															

				Source Control							Groundwater										
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action	Other†	
Site Name	Operable Unit	FY	Decision Document Type																		
Region 2, continued																					
New York, continued																					
CONSOLIDATED IRON AND METAL	01	2007	ROD				○		○								○				
DIAZ CHEMICAL	01	2005	ROD								○										
FULTON AVENUE	01	2007	ROD									○	○					○			
GRIFFISS AIR FORCE BASE (11 AREAS)	24	2005	ROD						○									○			
GRIFFISS AIR FORCE BASE (11 AREAS)	27	2005	ROD						○									○			
GRIFFISS AIR FORCE BASE (11 AREAS)	28	2005	ROD						○									○			
GRIFFISS AIR FORCE BASE (11 AREAS)	33	2007	ROD							○										○	
HERTEL LANDFILL	01	2005	ROD-A															○	○		
HITEMAN LEATHER	01	2006	ROD	○	○	○		○	○			○						○	○		
HOPEWELL PRECISION	02	2008	ROD																○		
LAWRENCE AVIATION INDUSTRIES, INC.	01	2006	ROD			○	○		○			○	○					○	○		
LI TUNGSTEN CORP.	02	2005	ESD						○									○			
LI TUNGSTEN CORP.	04	2005	ROD	○			○														
LITTLE VALLEY	02	2005	ROD	○			○							○				○	○		
LITTLE VALLEY	02	2006	ROD-A		○																
MERCURY REFINING, INC.	01	2008	ROD	○	○		○		○									○	○		
MOHONK ROAD INDUSTRIAL PLANT	01	2008	ROD-A		○							○		○				○	○		
NEPERA CHEMICAL CO., INC.	01	2007	ROD	○					○				○					○	○		
OLD ROOSEVELT FIELD CONTAMINATED GW AREA	01	2007	ROD									○						○	○		
ONONDAGA LAKE	02	2005	ROD	○		○	○	○	○												
ONONDAGA LAKE	02	2007	ESD		○																
ONONDAGA LAKE	08	2007	ROD	○		○	○	○	○		○	○						○	○	○	
PETER COOPER	01	2005	ROD	○		○		○	○												
PETER COOPER CORPORATION (MARKHAMS)	01	2007	ROD			○			○				○					○	○		
PLATTSBURGH AIR FORCE BASE	17	2008	ROD							○										○	
PLATTSBURGH AIR FORCE BASE	19	2008	ROD							○			○					○	○		
SENECA ARMY DEPOT	01	2005	ROD			○	○		○				○					○	○	○	

Site Name	Operable Unit	FY	Decision Document Type	Source Control								Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action
Region 2, continued																			
New York, continued																			
SENECA ARMY DEPOT	04	2006	ROD	○		○	○		○							○	○		
SENECA ARMY DEPOT	05	2006	ROD							○									○
SENECA ARMY DEPOT	07	2008	ROD	○			○												
SENECA ARMY DEPOT	09	2007	ROD							○						○			
SENECA ARMY DEPOT	10	2007	ROD						○							○			○
SENECA ARMY DEPOT	15	2005	ROD							○									○
SENECA ARMY DEPOT	17	2008	ROD						○							○			
SOLVENT SAVERS	01	2006	ESD		○														
SOLVENT SAVERS	01	2006	ROD-A	○		○	○	○	○										
Puerto Rico																			
ATLANTIC FLEET WEAPONS TRAINING AREA	03	2008	ROD							○									
SCORPIO RECYCLING, INC.	01	2006	ROD																○
Region 3																			
Washington, D.C.																			
WASHINGTON NAVY YARD	05	2006	ROD							○									
WASHINGTON NAVY YARD	06	2006	ROD							○									
WASHINGTON NAVY YARD	13	2008	ROD							○									
WASHINGTON NAVY YARD	14	2006	ROD							○									
Delaware																			
DOVER AIR FORCE BASE	15	2006	ROD						○				○	○			○	○	
DOVER AIR FORCE BASE	16	2006	ROD			○			○				○	○			○	○	
DOVER AIR FORCE BASE	17	2006	ROD						○				○	○			○	○	
DOVER AIR FORCE BASE	19	2006	ROD			○			○				○	○			○	○	
DOVER AIR FORCE BASE	23	2006	ROD						○								○		
DOVER AIR FORCE BASE	24	2006	ROD					○	○								○	○	
KOPPERS CO., INC. (NEWPORT PLANT)	01	2005	ROD	○		○	○	○			○	○			○		○	○	
STANDARD CHLORINE OF DELAWARE, INC.	01	2008	ESD	○															

Site Name	Operable Unit	FY	Decision Document Type	Source Control							Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply
Region 3, continued																		
Maryland																		
ABERDEEN PROVING GROUND (EDGEWOOD AREA)	11	2005	ESD															
ABERDEEN PROVING GROUND (EDGEWOOD AREA)	14	2007	ROD															
ABERDEEN PROVING GROUND (EDGEWOOD AREA)	18	2007	ROD															
ABERDEEN PROVING GROUND (EDGEWOOD AREA)	20	2005	ROD															
ABERDEEN PROVING GROUND (EDGEWOOD AREA)	23	2006	ROD															
ABERDEEN PROVING GROUND (EDGEWOOD AREA)	34	2006	ROD															
ABERDEEN PROVING GROUND (EDGEWOOD AREA)	35	2007	ROD															
ABERDEEN PROVING GROUND (EDGEWOOD AREA)	40	2007	ROD															
ABERDEEN PROVING GROUND (EDGEWOOD AREA)	42	2008	ROD															
ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	06	2006	ROD															
ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	07	2006	ROD															
ABERDEEN PROVING GROUND (MICHAELSVILLE LANDFILL)	08	2007	ROD															
ANDREWS AIR FORCE BASE	03	2006	ROD															
ANDREWS AIR FORCE BASE	07	2005	ROD															
ANDREWS AIR FORCE BASE	11	2007	ROD															
ANDREWS AIR FORCE BASE	13	2007	ROD															
BRANDYWINE DRMO	01	2006	ROD															
CURTIS BAY COAST GUARD YARD	03	2007	ROD															
INDIAN HEAD NAVAL SURFACE WARFARE CENTER	01	2007	ROD															
INDIAN HEAD NAVAL SURFACE WARFARE CENTER	05	2005	ROD															
INDIAN HEAD NAVAL SURFACE WARFARE CENTER	10	2005	ROD															
INDIAN HEAD NAVAL SURFACE WARFARE CENTER	11	2005	ROD															
ORDNANCE PRODUCTS, INC.	01	2006	ROD															
PATUXENT RIVER NAVAL AIR STATION	10	2008	ROD															
PATUXENT RIVER NAVAL AIR STATION	12	2008	ROD															
PATUXENT RIVER NAVAL AIR STATION	16	2006	ROD															
PATUXENT RIVER NAVAL AIR STATION	24	2008	ROD															

Site Name	Operable Unit	FY	Decision Document Type	Source Control							Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutionl Controls	Monitoring	Alternative Water Supply
Region 3, continued																		
Maryland, continued																		
PATUXENT RIVER NAVAL AIR STATION	25	2005	ROD															
PATUXENT RIVER NAVAL AIR STATION	30	2005	ROD															
Pennsylvania																		
BALLY GROUND WATER CONTAMINATION	01	2007	ROD-A															
BELL LANDFILL	01	2008	ESD															
BENDIX FLIGHT SYSTEMS DIVISION	01	2008	ESD															
BRESLUBE-PENN, INC.	01	2007	ROD															
CROSSLEY FARM	02	2008	ROD-A															
DORNEY ROAD LANDFILL	01	2007	ESD															
FOOTE MINERAL CO.	01	2006	ROD															
FOOTE MINERAL CO.	01	2008	ESD															
HAVERTOWN PCP	03	2008	ROD															
JACKS CREEK/SITKIN SMELTING & REFINING, INC.	01	2005	ESD															
LETTERKENNY ARMY DEPOT (SE AREA)	02	2006	ROD															
LETTERKENNY ARMY DEPOT (SE AREA)	04	2005	ROD															
LETTERKENNY ARMY DEPOT (SE AREA)	10	2006	ROD															
LETTERKENNY ARMY DEPOT (SE AREA)	15	2006	ROD															
LETTERKENNY ARMY DEPOT (SE AREA)	16	2006	ROD															
LETTERKENNY ARMY DEPOT (SE AREA)	23	2006	ROD															
LETTERKENNY ARMY DEPOT (SE AREA)	26	2006	ROD															
MALVERN TCE	01	2005	ROD-A															
NAVY SHIPS PARTS CONTROL CENTER	04	2005	ROD															
NAVY SHIPS PARTS CONTROL CENTER	05	2007	ROD															
NAVY SHIPS PARTS CONTROL CENTER	09	2007	ROD															
OCCIDENTAL CHEMICAL CORP./FIRESTONE TIRE & RUBBER CO.	01	2008	ESD															
PAOLI RAIL YARD	01	2005	ESD															
RAYMARK	02	2007	ESD															

Site Name	Operable Unit	FY	Decision Document Type	Source Control								Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action
Region 3, continued																			
Pennsylvania, continued																			
RYELAND ROAD ARSENIC SITE	01	2006	ROD	○	○	○	○		○		○		○						○
RYELAND ROAD ARSENIC SITE	01	2008	ESD		○														
RYELAND ROAD ARSENIC SITE	01	2008	ROD-A														○		
SHARON STEEL CORP (FARRELL WORKS DISPOSAL AREA)	01	2007	ROD	○		○		○	○							○	○		○
TAYLOR BOROUGH DUMP	01	2007	ESD						○										
UGI COLUMBIA GAS PLANT	01	2007	ROD						○				○			○	○		
WALSH LANDFILL	04	2006	ROD													○	○		
WILLOW GROVE NAVAL AIR AND AIR RESERVE STATION	01	2006	ROD							○									
WILLOW GROVE NAVAL AIR AND AIR RESERVE STATION	03	2008	ROD													○	○		
WILLOW GROVE NAVAL AIR AND AIR RESERVE STATION	04	2007	ROD							○									
Virginia																			
ATLANTIC WOOD INDUSTRIES, INC.	01	2008	ROD-A			○			○		○								
ATLANTIC WOOD INDUSTRIES, INC.	02	2008	ROD										○			○	○		
ATLANTIC WOOD INDUSTRIES, INC.	03	2008	ROD		○	○		○	○		○								
AVTEX FIBERS, INC.	10	2006	ESD	○		○	○												
DEFENSE GENERAL SUPPLY CENTER (DLA)	02	2008	ROD			○			○										
DEFENSE GENERAL SUPPLY CENTER (DLA)	08	2007	ROD						○				○	○		○	○		
DEFENSE GENERAL SUPPLY CENTER (DLA)	10	2007	ROD			○			○							○			
DEFENSE GENERAL SUPPLY CENTER (DLA)	11	2007	ROD			○			○							○			
DEFENSE GENERAL SUPPLY CENTER (DLA)	12	2006	ROD			○	○		○							○	○		
FIRST PIEDMONT CORP. ROCK QUARRY (ROUTE 719)	01	2007	ESD			○													
FORMER NANSEMOND ORDNANCE DEPOT	04	2007	ROD							○									
FORT EUSTIS (US ARMY)	02	2007	ROD	○		○	○	○	○										
GREENWOOD CHEMICAL CO.	04	2005	ROD			○			○			○	○			○			
H & H INC., BURN PIT	01	2007	ESD									○	○						
LANGLEY AIR FORCE BASE/NASA LANGLEY RESEARCH CENTER	21	2008	ROD			○		○	○										
LANGLEY AIR FORCE BASE/NASA LANGLEY RESEARCH CENTER	22	2008	ROD				○		○										

Site Name	Operable Unit	FY	Decision Document Type	Source Control								Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action
Region 3, continued																			
Virginia, continued																			
LANGLEY AIR FORCE BASE/NASA LANGLEY RESEARCH CENTER	26	2008	ROD							○									
LANGLEY AIR FORCE BASE/NASA LANGLEY RESEARCH CENTER	32	2008	ROD							○									
LANGLEY AIR FORCE BASE/NASA LANGLEY RESEARCH CENTER	34	2008	ROD	○	○	○				○		○							
LANGLEY AIR FORCE BASE/NASA LANGLEY RESEARCH CENTER	40	2008	ROD			○	○			○		○							
LANGLEY AIR FORCE BASE/NASA LANGLEY RESEARCH CENTER	51	2008	ROD	○			○												
MARINE CORPS COMBAT DEVELOPMENT COMMAND	02	2008	ROD							○								○	
MARINE CORPS COMBAT DEVELOPMENT COMMAND	04	2008	ROD						○							○	○		
MARINE CORPS COMBAT DEVELOPMENT COMMAND	05	2007	ROD							○									
MARINE CORPS COMBAT DEVELOPMENT COMMAND	19	2008	ROD										○			○	○		
MARINE CORPS COMBAT DEVELOPMENT COMMAND	20	2008	ROD							○									
NAVAL AMPHIBIOUS BASE LITTLE CREEK	02	2008	ROD							○								○	
NAVAL AMPHIBIOUS BASE LITTLE CREEK	05	2007	ROD										○				○		
NAVAL AMPHIBIOUS BASE LITTLE CREEK	06	2005	ROD										○			○	○		
NAVAL AMPHIBIOUS BASE LITTLE CREEK	07	2007	ROD										○	○		○	○		
NAVAL AMPHIBIOUS BASE LITTLE CREEK	09	2005	ROD							○								○	
NAVAL AMPHIBIOUS BASE LITTLE CREEK	10	2005	ROD							○								○	
NAVAL SURFACE WARFARE CENTER - DAHLGREN	01	2007	ESD				○												
NAVAL SURFACE WARFARE CENTER - DAHLGREN	10	2006	ROD-A			○		○	○										
NAVAL SURFACE WARFARE CENTER - DAHLGREN	19	2008	ROD				○	○					○	○		○	○		
NAVAL SURFACE WARFARE CENTER - DAHLGREN	23	2005	ROD							○								○	
NAVAL WEAPONS STATION - YORKTOWN	07	2005	ROD							○								○	
NAVAL WEAPONS STATION - YORKTOWN	09	2005	ROD							○								○	
NAVAL WEAPONS STATION - YORKTOWN	12	2006	ROD							○								○	
NORFOLK NAVAL BASE (SEWELLS POINT NAVAL COMPLEX)	09	2006	ROD							○								○	
NORFOLK NAVAL BASE (SEWELLS POINT NAVAL COMPLEX)	10	2008	ROD												○				
NORFOLK NAVAL SHIPYARD	01	2006	ROD							○									

Site Name	Operable Unit	FY	Decision Document Type	Source Control								Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action
Region 3, continued																			
Virginia, continued																			
NORFOLK NAVAL SHIPYARD	04	2006	ROD						○										
ST. JULIENS CREEK ANNEX (U.S. NAVY)	03	2006	ROD							○								○	
West Virginia																			
ALLEGANY BALLISTICS LABORATORY (USNAVY)	02	2006	ROD									○	○			○	○		
ALLEGANY BALLISTICS LABORATORY (USNAVY)	05	2005	ROD								○					○	○		
ALLEGANY BALLISTICS LABORATORY (USNAVY)	06	2007	ROD							○									
ALLEGANY BALLISTICS LABORATORY (USNAVY)	13	2007	ROD							○								○	
ALLEGANY BALLISTICS LABORATORY (USNAVY)	14	2008	ROD															○	
FIKE CHEMICAL, INC.	04	2007	ROD-A									○	○						
WEST VIRGINIA ORDNANCE (USARMY)	02	2005	ESD	○															
Region 4																			
Alabama																			
AMERICAN BRASS INC.	01	2006	ROD	○			○						○			○	○		
ANNISTON ARMY DEPOT (SOUTHEAST INDUSTRIAL AREA)	02	2008	ROD	○		○	○		○										
ANNISTON ARMY DEPOT (SOUTHEAST INDUSTRIAL AREA)	03	2006	ROD				○		○				○			○	○		
US NASA MARSHALL SPACE FLIGHT CENTER - Interim Groundwater	03	2007	ROD													○			
US NASA MARSHALL SPACE FLIGHT CENTER - Interim Source Area 13	03	2007	ROD		○														
USARMY/NASA REDSTONE ARSENAL	03	2007	ROD							○									○
USARMY/NASA REDSTONE ARSENAL	05	2007	ROD			○											○		
USARMY/NASA REDSTONE ARSENAL	06	2007	ROD	○			○										○		
USARMY/NASA REDSTONE ARSENAL	10	2007	ROD							○									
USARMY/NASA REDSTONE ARSENAL	18	2008	ROD							○									○
USARMY/NASA REDSTONE ARSENAL	19	2007	ROD													○			
Florida																			
CALLAWAY & SON DRUM SERVICE	01	2007	ROD							○									○
COLEMAN-EVANS WOOD PRESERVING CO.	01	2005	ESD										○						
COLEMAN-EVANS WOOD PRESERVING CO.	02	2006	ROD			○			○										

					Source Control							Groundwater										
					Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutionl Controls	Monitoring	Alternative Water Supply	No Action/No Further Action	Other†	
Site Name				Operable Unit	FY	Decision Document Type																
Region 4, continued																						
Florida, continued																						
ESCAMBIA WOOD - PENSACOLA				01	2006	ROD	○		○			○		○					○			
ESCAMBIA WOOD - PENSACOLA				02	2008	ROD									○	○			○			
HOMESTEAD AIR FORCE BASE				11	2006	ROD												○	○			
HOMESTEAD AIR FORCE BASE				12	2006	ROD					○	○							○	○		
HOMESTEAD AIR FORCE BASE				15	2006	ROD						○							○	○		
HOMESTEAD AIR FORCE BASE				20	2006	ROD						○							○	○		
HOMESTEAD AIR FORCE BASE				21	2006	ROD						○							○	○		
HOMESTEAD AIR FORCE BASE				25	2006	ROD						○										
HOMESTEAD AIR FORCE BASE				27	2006	ROD						○										
HOMESTEAD AIR FORCE BASE				30	2006	ROD						○							○	○		
HOMESTEAD AIR FORCE BASE				31	2006	ROD						○							○	○		
JACKSONVILLE NAVAL AIR STATION				03	2007	ROD										○			○	○		
JACKSONVILLE NAVAL AIR STATION				05	2005	ROD					○	○				○	○		○	○		
JACKSONVILLE NAVAL AIR STATION				06	2007	ROD					○					○	○		○	○		
JACKSONVILLE NAVAL AIR STATION				07	2005	ROD						○				○			○	○		
JACKSONVILLE NAVAL AIR STATION				08	2008	ROD						○				○			○	○		
LANDIA CHEMICAL COMPANY				01	2007	ROD					○					○			○			
MRI CORP (TAMPA)				02	2008	ROD				○						○		○	○			
PEAK OIL CO./BAY DRUM CO.				02	2005	ROD-A										○	○		○	○		
PENSACOLA NAVAL AIR STATION				02	2008	ROD	○				○								○	○		
PENSACOLA NAVAL AIR STATION				03	2005	ROD							○									
PENSACOLA NAVAL AIR STATION				11	2007	ROD						○							○	○		
PENSACOLA NAVAL AIR STATION				13	2007	ROD							○						○	○		
PENSACOLA NAVAL AIR STATION				15	2005	ROD							○									
SAPP BATTERY SALVAGE				01	2007	ESD				○												
STAUFFER CHEMICAL CO (TAMPA)				01	2006	ROD-A	○			○			○						○	○		
STAUFFER CHEMICAL CO. (TARPON SPRINGS)				01	2007	ESD												○				

				Source Control								Groundwater									
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action	Other†	
Site Name	Operable Unit	FY	Decision Document Type																		
Region 4, continued																					
Florida, continued																					
TOWER CHEMICAL CO.	03	2006	ROD		○	○	○		○				○	○		○	○	○			
UNITED METALS, INC.	01	2006	ROD	○		○			○		○			○			○	○			
USN AIR STATION CECIL FIELD	05	2006	ROD							○											
USN AIR STATION CECIL FIELD	05	2008	ROD	○			○		○		○										
USN AIR STATION CECIL FIELD	09	2005	ROD											○			○	○			
USN AIR STATION CECIL FIELD	09	2008	ROD										○	○			○				
USN AIR STATION CECIL FIELD	10	2005	ROD				○		○			○		○		○	○				
WHITING FIELD NAVAL AIR STATION	05	2005	ROD							○											
WHITING FIELD NAVAL AIR STATION	08	2005	ROD							○											
WHITING FIELD NAVAL AIR STATION	09	2007	ROD			○			○												
WHITING FIELD NAVAL AIR STATION	10	2007	ROD						○												
WHITING FIELD NAVAL AIR STATION	11	2005	ROD							○											
WHITING FIELD NAVAL AIR STATION	12	2006	ROD						○												
WHITING FIELD NAVAL AIR STATION	13	2007	ROD							○											
WHITING FIELD NAVAL AIR STATION	14	2007	ROD					○	○												
WHITING FIELD NAVAL AIR STATION	16	2006	ROD						○												
WHITING FIELD NAVAL AIR STATION	17	2006	ROD			○			○												
WHITING FIELD NAVAL AIR STATION	22	2007	ROD			○		○	○												
WHITING FIELD NAVAL AIR STATION	23	2005	ROD							○											
WHITING FIELD NAVAL AIR STATION	26	2005	ROD							○											
Georgia																					
MARINE CORPS LOGISTICS BASE	06	2005	ESD		○				○					○							
PEACH ORCHARD RD PCE GROUNDWATER PLUME SITE	01	2007	ROD		○			○						○	○		○	○			
Kentucky																					
PADUCAH GASEOUS DIFFUSION PLANT (USDOE)	19	2005	ROD		○				○								○	○			

Site Name	Operable Unit	FY	Decision Document Type	Source Control								Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action
Region 4, continued																			
Mississippi																			
AMERICAN CREOSOTE WORKS INC	01	2007	ROD			○									○		○		
PICAYUNE WOOD TREATING SITE	00	2007	ROD			○		○	○					○	○	○			
North Carolina																			
CAMP LEJEUNE MILITARY RES. (USNAVY)	07	2005	ROD						○					○		○	○		
CAMP LEJEUNE MILITARY RES. (USNAVY)	17	2007	ROD							○			○	○		○	○		
CAMP LEJEUNE MILITARY RES. (USNAVY)	19	2006	ROD							○								○	
CAROLINA TRANSFORMER CO.	01	2005	ROD-A											○			○		
CHERRY POINT MARINE CORPS AIR STATION	04	2005	ROD											○		○	○		
CHERRY POINT MARINE CORPS AIR STATION	05	2006	ROD											○		○	○		
CHERRY POINT MARINE CORPS AIR STATION	06	2006	ROD				○							○		○	○		
CHERRY POINT MARINE CORPS AIR STATION	13	2005	ROD											○		○	○		
FCX, INC. (STATESVILLE PLANT)	01	2006	ROD-A											○		○	○		
FCX, INC. (STATESVILLE PLANT)	03	2006	ESD											○					
FCX, INC. (WASHINGTON PLANT)	02	2005	ROD-A											○			○		
REASOR CHEMICAL COMPANY	01	2007	ROD-A	○		○	○									○	○		
SIGMON'S SEPTIC TANK SERVICE	01	2006	ROD	○		○	○												
WARD TRANSFORMER	01	2008	ROD				○	○	○										
South Carolina																			
BREWER GOLD MINE	01	2005	ROD	○								○							
PALMETTO WOOD PRESERVING	01	2008	ROD-A										○			○	○		
PARRIS ISLAND MARINE CORPS RECRUIT DEPOT	01	2006	ROD			○		○	○							○	○		
PARRIS ISLAND MARINE CORPS RECRUIT DEPOT	02	2006	ROD							○									
PARRIS ISLAND MARINE CORPS RECRUIT DEPOT	05	2007	ROD				○									○			
SAVANNAH RIVER SITE (USDOE)	19	2007	ROD		○				○										
SAVANNAH RIVER SITE (USDOE)	21	2005	ESD				○												
SAVANNAH RIVER SITE (USDOE)	24	2005	ROD		○			○	○				○			○	○		
SAVANNAH RIVER SITE (USDOE)	28	2007	ROD		○	○			○										

					Source Control							Groundwater							
					Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply
Site Name	Operable Unit	FY	Decision Document Type																
Region 4, continued																			
South Carolina, continued																			
SAVANNAH RIVER SITE (USDOE)	31	2008	ROD		○	○			○				○			○			
SAVANNAH RIVER SITE (USDOE)	53	2005	ROD						○										
SAVANNAH RIVER SITE (USDOE)	67	2005	ROD	○		○			○		○						○		
SAVANNAH RIVER SITE (USDOE)	75	2006	ROD							○									
SAVANNAH RIVER SITE (USDOE)	77	2007	ROD					○					○				○	○	
SAVANNAH RIVER SITE (USDOE)	87	2006	ROD							○									○
SAVANNAH RIVER SITE (USDOE)	96	2006	ROD		○	○		○	○										
SAVANNAH RIVER SITE (USDOE)	97	2006	ROD							○									
TOWNSEND SAW CHAIN CO.	01	2007	ESD										○				○		
Tennessee																			
MILAN ARMY AMMUNITION PLANT	05	2007	ESD	○															
OAK RIDGE RESERVATION (USDOE)	15	2005	ROD				○		○										
OAK RIDGE RESERVATION (USDOE)	29	2005	ROD-A			○													
OAK RIDGE RESERVATION (USDOE)	29	2005	ESD			○	○												
OAK RIDGE RESERVATION (USDOE)	50	2006	ROD			○			○								○	○	
SMALLEY-PIPER	01	2008	ROD	○	○		○					○					○		
Region 5																			
Illinois																			
JENNISON-WRIGHT CORPORATION	01	2006	ESD				○												
KERR-MCGEE (KRESS CREEK/WEST BRANCH OF DUPAGE RIVER)	01	2005	ROD	○		○	○	○											
LENZ OIL SERVICE, INC.	01	2007	ESD	○	○	○	○										○		
OTTAWA RADIATION AREAS	02	2007	ESD				○												
OUTBOARD MARINE CORP.	04	2007	ROD	○		○	○												
PARSONS CASKET HARDWARE CO.	02	2005	ROD										○				○	○	
SANGAMO ELECTRIC DUMP/CRAB ORCHARD NATIONAL WILDLIFE REFUGE (USDOI)	02	2007	ROD-A				○					○	○	○			○		

Site Name	Operable Unit	FY	Decision Document Type	Source Control								Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action
Region 5, continued																			
Indiana																			
BENNETT STONE QUARRY	01	2006	ROD-A	○					○			○				○			
CAM-OR INC.	01	2008	ROD		○	○	○		○			○				○			
CONTINENTAL STEEL CORP.	01	2005	ESD		○	○	○												
ENVIROCHEM CORP.	01	2006	ESD										○		○				
JACOBSTOWN NEIGHBORHOOD SOIL CONTAMINATION	01	2008	ROD				○		○										
LEMON LANE LANDFILL	01	2006	ROD-A				○		○			○				○	○		
NEAL'S LANDFILL (BLOOMINGTON)	01	2007	ROD-A				○		○			○				○			
Michigan																			
ALLIED PAPER, INC./PORTAGE CREEK/KALAMAZOO RIVER	02	2006	ROD			○			○								○		
FOREST WASTE PRODUCTS	02	2005	ROD-A										○			○	○		
GRAND TRAVERSE OVERALL SUPPLY CO.	02	2008	ROD		○		○	○				○				○	○		
K&L AVENUE LANDFILL	01	2005	ROD-A			○			○			○	○	○		○	○	○	
NORTH BRONSON INDUSTRIAL AREA	01	2008	ESD		○	○			○										
NORTH BRONSON INDUSTRIAL SUBAREAS	01	2006	ROD						○							○			
NORTH BRONSON INDUSTRIAL SUBAREAS	02	2008	ROD		○	○			○			○				○	○		
SPARTAN CHEMICAL CO.	00	2007	ROD		○		○						○	○		○			
VERONA WELL FIELD	01	2008	ESD		○								○						
VERONA WELL FIELD	02	2008	ESD										○						
Minnesota																			
FRIDLEY COMMONS PARK WELL FIELD	01	2005	ROD														○		
LEHILLIER/MANKATO	01	2008	ESD													○			
NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	07	2006	ROD-A									○							
NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	07	2007	ROD-A	○		○	○	○	○		○	○				○	○		
NEW BRIGHTON/ARDEN HILLS/TCAAP (USARMY)	09	2006	ROD-A										○				○		
RITARI POST & POLE	01	2008	ESD				○												
SOUTH MINNEAPOLIS RESIDENTIAL SOIL CONTAMINATION	00	2008	ROD	○			○		○										
ST. REGIS PAPER CO.	07	2006	ROD	○		○													

Site Name	Operable Unit	FY	Decision Document Type	Source Control								Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutionl Controls	Monitoring	Alternative Water Supply	No Action/No Further Action
Region 5, continued																			
Ohio																			
ALLIED CHEMICAL & IRONTON COKE	03	2007	ROD	○		○	○		○										
NEASE CHEMICAL	02	2005	ROD		○	○			○			○	○	○			○	○	
NEASE CHEMICAL	03	2008	ROD	○		○													
Wisconsin																			
LEMBERGER LANDFILL, INC.	01	2006	ESD										○						
LEMBERGER TRANSPORT & RECYCLING	01	2006	ESD										○						
MASTER DISPOSAL SERVICE LANDFILL	02	2007	ROD									○		○			○		
MOSS-AMERICAN CO., INC. (KERR-MCGEE OIL CO.)	01	2008	ESD				○												
Region 6																			
Arkansas																			
MIDLAND PRODUCTS	01	2006	ROD-A											○			○	○	
OUACHITA NEVADA WOOD TREATER	01	2005	ROD		○		○						○	○	○		○	○	
Louisiana																			
LOUISIANA ARMY AMMUNITION PLANT	04	2006	ROD							○									
LOUISIANA ARMY AMMUNITION PLANT	05	2007	ROD										○				○	○	
OLD INGER OIL REFINERY	01	2006	ESD																○
RUSTON FOUNDRY	01	2008	ESD				○												
New Mexico																			
FRUIT AVENUE PLUME	01	2006	ESD											○					
GRANTS CHLORINATED SOLVENTS	00	2006	ROD		○			○					○	○			○	○	
GRIGGS & WALNUT GROUND WATER PLUME	01	2007	ROD									○					○	○	
MCGAFFEY AND MAIN GROUNDWATER PLUME	00	2008	ROD		○		○	○	○			○	○	○			○	○	
NORTH RAILROAD AVENUE PLUME	01	2008	ESD										○						
Oklahoma																			
COMPASS INDUSTRIES (AVERY DRIVE)	01	2006	ESD						○								○		
DOUBLE EAGLE REFINERY CO.	01	2008	ESD						○										

Site Name	Operable Unit	FY	Decision Document Type	Source Control								Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action
Region 6, continued																			
Oklahoma, continued																			
FOURTH STREET ABANDONED REFINERY	01	2008	ESD						○										
HUDSON REFINERY	01	2008	ROD	○	○	○	○		○							○	○		
IMPERIAL REFINING COMPANY	00	2008	ROD				○												
TAR CREEK (OTTAWA COUNTY)	04	2008	ROD			○			○							○		○	
TINKER AIR FORCE BASE (SOLDIER CREEK/BUILDING 3001)	03	2008	ROD																○
Texas																			
AIR FORCE PLANT #4 (GENERAL DYNAMICS)	01	2007	ESD											○			○		
GARLAND CREOSOTING	01	2006	ROD	○		○	○		○				○		○		○	○	
GENEVA INDUSTRIES/FUHRMANN ENERGY	01	2007	ESD						○							○			
HART CREOSOTING COMPANY	01	2006	ROD	○		○			○				○		○		○		
JASPER CREOSOTING COMPANY INC.	01	2006	ROD	○		○			○				○		○		○		
LONGHORN ARMY AMMUNITION PLANT	00	2006	ROD			○			○					○			○	○	
LONGHORN ARMY AMMUNITION PLANT	00	2008	ROD							○									○
MANY DIVERSIFIED INTERESTS, INC.	02	2005	ROD							○									
PALMER BARGE LINE	00	2005	ROD	○			○		○										
PANTEX PLANT (USDOE)	00	2008	ROD		○	○	○	○	○			○	○				○		
PESSER CHEMICAL CO.	01	2007	ESD						○								○		
PETRO-CHEMICAL SYSTEMS, INC. (TURTLE BAYOU)	02	2006	ROD-A		○	○			○				○				○	○	
STATE MARINE OF PORT ARTHUR	01	2007	ROD						○										
STATE ROAD 114 GROUNDWATER PLUME	00	2008	ROD		○	○						○					○	○	○
Region 7																			
Iowa																			
IOWA ARMY AMMUNITION PLANT	03	2005	ROD										○	○			○	○	○
IOWA ARMY AMMUNITION PLANT	04	2008	ROD			○		○	○								○	○	
RAILROAD AVENUE GROUNDWATER CONTAMINATION	01	2005	ROD											○			○	○	
RAILROAD AVENUE GROUNDWATER CONTAMINATION	02	2006	ROD											○			○	○	

				Source Control								Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action
Site Name	Operable Unit	FY	Decision Document Type																
Region 7, continued																			
Kansas																			
CHEMICAL COMMODITIES, INC.	01	2005	ROD		○	○	○		○				○	○		○	○		
CHEROKEE COUNTY	03	2006	ROD-A	○		○											○		
CHEROKEE COUNTY	04	2006	ROD-A	○		○											○		
FORT RILEY	03	2008	ROD						○				○			○	○		
FORT RILEY	04	2005	ROD										○			○	○		
FORT RILEY	05	2006	ROD										○			○	○		
OBEE ROAD	02	2007	ROD		○			○				○				○	○	○	
PESTER REFINERY CO.	01	2005	ROD-A	○	○	○		○	○			○				○	○		
WRIGHT GROUND WATER CONTAMINATION	01	2007	ROD										○				○		
Missouri																			
ANNAPOLIS LEAD MINE	01	2005	ROD	○		○			○										
ANNAPOLIS LEAD MINE	02	2007	ROD							○									
ANNAPOLIS LEAD MINE	03	2007	ROD				○												
LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	01	2008	ROD			○	○		○			○	○	○		○	○		
LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	02	2007	ROD		○	○						○		○			○		
LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON)	03	2007	ROD		○	○	○	○	○			○	○	○		○	○		○
MADISON COUNTY MINES	03	2008	ROD	○			○		○										
MISSOURI ELECTRIC WORKS	02	2005	ROD										○	○		○	○	○	
OAK GROVE VILLAGE WELL	01	2007	ROD													○	○	○	
RIVERFRONT	05	2007	ROD					○	○							○	○		
ST. LOUIS AIRPORT/HAZELWOOD INTERIM STORAGE/FUTURA COATINGS CO.	01	2005	ROD	○			○	○	○								○		
VALLEY PARK TCE	02	2005	ESD				○												
WELDON SPRING QUARRY/PLANT/PITS (USDOE/ARMY)	06	2005	ESD						○							○	○		
WESTLAKE LANDFILL	01	2008	ROD			○			○							○	○		
WESTLAKE LANDFILL	02	2008	ROD			○			○							○	○		

Site Name	Operable Unit	FY	Decision Document Type	Source Control								Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutionl Controls	Monitoring	Alternative Water Supply	No Action/No Further Action
Region 7, continued																			
Nebraska																			
10TH STREET SITE	02	2005	ROD		○				○			○	○			○			
BRUNO CO-OP ASSOCIATION/ASSOCIATED PROPERTIES	01	2005	ESD													○			
HASTINGS GROUND WATER CONTAMINATION	02	2006	ROD									○		○		○	○		
HASTINGS GROUND WATER CONTAMINATION	06	2007	ROD									○	○						
HASTINGS GROUND WATER CONTAMINATION	12	2006	ROD	○	○		○	○											
HASTINGS GROUND WATER CONTAMINATION	12	2008	ROD-A						○				○			○			
OGALLALA GROUND WATER CONTAMINATION	02	2006	ROD										○			○	○	○	
OMAHA LEAD	01	2005	ROD			○													
PARKVIEW WELL	01	2006	ROD									○		○		○	○	○	
PARKVIEW WELL	02	2007	ROD		○				○				○			○	○		
Region 8																			
Colorado																			
CALIFORNIA GULCH	11	2005	ROD	○		○		○	○								○		
CAPTAIN JACK MILL	01	2008	ROD	○		○		○	○								○		
CENTRAL CITY, CLEAR CREEK	03	2005	ESD	○		○													
CENTRAL CITY, CLEAR CREEK	04	2006	ROD-A			○													
LOWRY LANDFILL	00	2005	ROD-A		○	○	○												
ROCKY FLATS PLANT (USDOE)	00	2006	ROD						○							○	○		○
ROCKY MOUNTAIN ARSENAL (USARMY)	03	2006	ROD-A			○						○			○				
ROCKY MOUNTAIN ARSENAL (USARMY) - Off-Site Waste Disposal	03	2008	ESD	○			○												
Montana																			
LOCKWOOD SOLVENT GROUND WATER PLUME	01	2005	ROD	○	○	○							○				○	○	
MILLTOWN RESERVOIR SEDIMENTS	02	2005	ROD	○		○		○	○				○			○	○	○	
SILVER BOW CREEK/BUTTE AREA	08	2006	ROD	○		○		○	○			○				○	○		
UPPER TENMILE CREEK MINING AREA	04	2008	ROD-A			○	○		○									○	

Site Name	Operable Unit	FY	Decision Document Type	Source Control								Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action
Region 8, continued																			
North Dakota																			
ARSENIC TRIOXIDE SITE	01	2007	ESD															○	
ARSENIC TRIOXIDE SITE	01	2008	ESD															○	
South Dakota																			
GILT EDGE MINE	01	2008	ROD	○		○			○										
Utah																			
BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	01	2006	ROD		○				○				○				○	○	
BOUNTIFUL/WOODS CROSS 5TH S. PCE PLUME	02	2007	ROD		○		○				○	○					○	○	○
DAVENPORT AND FLAGSTAFF SMELTERS	01	2006	ESD	○	○		○												
HILL AIR FORCE BASE	05	2006	ROD					○	○			○	○	○	○		○	○	
HILL AIR FORCE BASE	08	2005	ROD								○		○				○	○	
HILL AIR FORCE BASE	12	2008	ROD				○		○			○	○				○		
INTERNATIONAL SMELTING AND REFINING	01	2007	ROD						○	○									
MIDVALE SLAG	01	2006	ESD			○			○										
TOOELE ARMY DEPOT (NORTH AREA)	09	2008	ROD	○			○		○								○		
Wyoming																			
F.E. WARREN AIR FORCE BASE	02	2006	ROD					○					○	○			○	○	
F.E. WARREN AIR FORCE BASE	02	2007	ROD-A		○	○							○						
F.E. WARREN AIR FORCE BASE	06	2005	ROD							○									○
F.E. WARREN AIR FORCE BASE	09	2006	ROD							○									
F.E. WARREN AIR FORCE BASE	11	2005	ROD-A										○	○			○		
F.E. WARREN AIR FORCE BASE	13	2006	ROD																○
Region 9																			
Arizona																			
APACHE POWDER CO.	01	2005	ROD-A			○			○				○				○	○	
NINETEENTH AVENUE LANDFILL	01	2006	ESD						○								○		

				Source Control								Groundwater							
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action
Site Name	Operable Unit	FY	Decision Document Type																
Region 9, continued																			
California																			
ALAMEDA NAVAL AIR STATION	01	2007	ROD				○							○	○				
ALAMEDA NAVAL AIR STATION	05	2007	ROD						○										
ALAMEDA NAVAL AIR STATION	06	2006	ROD							○				○					
ALAMEDA NAVAL AIR STATION	09	2007	ROD	○			○							○					
ALAMEDA NAVAL AIR STATION	10	2005	ROD							○									
ALAMEDA NAVAL AIR STATION	11	2007	ROD							○				○					
ALAMEDA NAVAL AIR STATION	12	2006	ROD							○									○
ALAMEDA NAVAL AIR STATION	14	2007	ROD		○									○		○			
ALAMEDA NAVAL AIR STATION	15	2008	ROD							○				○			○		
ALAMEDA NAVAL AIR STATION	16	2007	ROD							○				○			○		
BARSTOW MARINE CORPS LOGISTICS BASE	02	2006	ROD		○									○			○		
BECKMAN INSTRUMENTS (PORTERVILLE PLANT)	01	2005	ROD-A												○		○	○	
BROWN & BRYANT, INC. (ARVIN PLANT)	02	2007	ROD									○		○			○	○	
CAMP PENDLETON MARINE CORPS BASE	03	2008	ESD				○												
CAMP PENDLETON MARINE CORPS BASE	04	2007	ROD	○			○	○											
CAMP PENDLETON MARINE CORPS BASE	05	2008	ROD	○			○												
CASTLE AIR FORCE BASE (6 AREAS)	01	2006	ROD														○	○	○
CASTLE AIR FORCE BASE (6 AREAS)	04	2005	ROD		○		○	○	○									○	
CONCORD NAVAL WEAPONS STATION	07	2005	ROD							○									○
DEL AMO	02	2006	ESD		○														
EDWARDS AIR FORCE BASE	04	2007	ROD						○								○	○	
EDWARDS AIR FORCE BASE	06	2006	ROD							○			○				○	○	
EDWARDS AIR FORCE BASE	11	2008	ROD				○	○	○										
EL TORO MARINE CORPS AIR STATION	02	2006	ROD							○									
EL TORO MARINE CORPS AIR STATION	03	2007	ROD				○	○											
EL TORO MARINE CORPS AIR STATION	05	2008	ROD			○	○		○								○		
FORT ORD	02	2007	ESD							○									

					Source Control							Groundwater						
					Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutionl Controls	Monitoring
Site Name	Operable Unit	FY	Decision Document Type															
Region 9, continued																		
California, continued																		
FORT ORD	08	2005	ESD							o								
FORT ORD	09	2005	ROD							o								
FORT ORD	10	2008	ROD							o								
FORT ORD	11	2008	ROD							o								
FORT ORD	12	2008	ROD								o	o	o			o	o	o
FRONTIER FERTILIZER	01	2006	ROD		o	o				o			o			o	o	
JET PROPULSION LABORATORY (NASA)	01	2007	ROD								o	o						
JET PROPULSION LABORATORY (NASA)	03	2007	ROD								o							
LAVA CAP MINE	02	2008	ROD													o	o	o
LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	2007	ROD-A					o	o		o		o	o		o	o	
LAWRENCE LIVERMORE NATL LAB (SITE 300) (USDOE)	08	2008	ROD	o		o		o	o		o		o		o	o		
MARCH AIR FORCE BASE	02	2005	ROD							o								o
MARCH AIR FORCE BASE	04	2005	ROD					o	o									o
MATHER AIR FORCE BASE (AC&W DISPOSAL SITE)	04	2008	ESD				o											
MATHER AIR FORCE BASE (AC&W DISPOSAL SITE)	06	2006	ROD					o	o									
MCCLELLAN AIR FORCE BASE (GROUND WATER CONTAMINATION)	01	2007	ROD		o					o					o	o		
MCCLELLAN AIR FORCE BASE (GROUND WATER CONTAMINATION)	04	2008	ROD				o			o								
MCCORMICK & BAXTER CREOSOTING CO.	03	2005	ESD			o					o							
MOFFETT NAVAL AIR STATION	08	2005	ROD			o	o											
NORTON AIR FORCE BASE (LNDPLL #2)	02	2005	ROD				o			o								
OMEGA CHEMICAL CORPORATION	01	2008	ROD	o	o					o								
PEMACO MAYWOOD	01	2005	ROD		o	o				o		o	o			o	o	
PURITY OIL SALES, INC.	02	2006	ROD-A	o	o	o				o						o		
SELMA TREATING CO.	01	2005	ESD									o						
SOLA OPTICAL USA, INC.	01	2007	ROD-A									o			o	o		
TRAVIS AIR FORCE BASE	02	2006	ROD			o				o								

Site Name	Operable Unit	FY	Decision Document Type	Source Control							Groundwater								
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action
Region 9, continued																			
California, continued																			
VALLEY WOOD PRESERVING, INC.	01	2007	ROD-A						○				○	○			○		
WESTINGHOUSE ELECTRIC CORP. (SUNNYVALE PLANT)	01	2008	ESD						○								○		
Guam																			
ANDERSEN AIR FORCE BASE	01	2008	ROD						○										
ANDERSEN AIR FORCE BASE	07	2005	ROD	○		○	○												
ANDERSEN AIR FORCE BASE	08	2007	ROD	○		○	○		○										
ANDERSEN AIR FORCE BASE	09	2008	ROD							○									
ANDERSEN AIR FORCE BASE	10	2008	ROD							○									
Hawaii																			
NAVAL COMPUTER AND TELECOMMUNICATIONS AREA MASTER STATION EASTERN PACIFIC	02	2006	ROD							○									
NAVAL COMPUTER AND TELECOMMUNICATIONS AREA MASTER STATION EASTERN PACIFIC	03	2007	ROD							○									
PEARL HARBOR NAVAL COMPLEX	00	2007	ROD							○									
PEARL HARBOR NAVAL COMPLEX	08	2006	ROD							○								○	
PEARL HARBOR NAVAL COMPLEX	10	2006	ROD							○								○	
Region 10																			
Alaska																			
FORT RICHARDSON (USARMY)	05	2005	ROD										○			○	○		
Idaho																			
IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	03	2005	ESD	○			○												
IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	11	2005	ESD	○			○												
IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	16	2008	ROD		○	○			○							○	○		
IDAHO NATIONAL ENGINEERING LABORATORY (USDOE)	28	2007	ROD			○		○	○							○			
MOUNTAIN HOME AIR FORCE BASE - Lagoon Landfill (LF-01)	01	2006	ESD						○										
MOUNTAIN HOME AIR FORCE BASE - Landfill No. 2 (LF-02, B Street Landfill), OU 2	01	2006	ESD						○										
Oregon																			
FREMONT NATIONAL FOREST/WHITE KING AND LUCKY LASS URANIUM MINES (USDA)	02	2006	ESD			○			○										
REYNOLDS METALS COMPANY	02	2006	ROD						○							○	○		

				Source Control							Groundwater										
				Ex Situ Treatment	In Situ Treatment	Containment On Site	Off-Site Disposal	Monitoring	Institutional Controls	No Action/No Further Action	Other*	Pump and Treat	In Situ Treatment	Monitored Natural Attenuation	Containment by Vertical Engineered Barrier	Institutional Controls	Monitoring	Alternative Water Supply	No Action/No Further Action	Other†	
Site Name	Operable Unit	FY	Decision Document Type																		
Region 10, continued																					
Oregon, continued																					
TAYLOR LUMBER AND TREATING	01	2005	ROD			o	o		o			o			o	o					
UMATILLA ARMY DEPOT (LAGOONS)	09	2005	ROD	o		o			o												
Washington																					
BOOMSNUB/AIRCO	01	2006	ESD													o					
FORT LEWIS LOGISTICS CENTER	01	2007	ESD									o									
HANFORD 200-AREA (USDOE)	14	2007	ROD-A			o															
HANFORD 200-AREA (USDOE)	42	2005	ROD			o	o														
HANFORD 200-AREA (USDOE)	45	2008	ROD									o		o		o	o				
MIDNITE MINE	01	2006	ROD	o		o	o	o	o			o		o			o				
MOSES LAKE WELLFIELD CONTAMINATION	01	2008	ROD				o	o	o			o				o	o	o			
NAVAL AIR STATION, WHIDBEY ISLAND (AULT FIELD)	01	2008	ESD						o							o					
PORT HADLOCK DETACHMENT (USNAVY)	01	2005	ESD						o												
PUGET SOUND NAVAL SHIPYARD COMPLEX	06	2005	ROD			o			o							o	o				
WYCKOFF CO./EAGLE HARBOR	01	2007	ESD			o															

Appendix H

Identification of Remedy and Record of Decision Types for Superfund Remedial Actions

H.1 BACKGROUND

On December 11, 1980, Congress passed the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), which is known as the “Superfund” act. The act created the Superfund program, which was established to clean up abandoned hazardous waste sites around the United States. Section 105(a)(8)(B) of CERCLA, as amended, requires that EPA prepare a list of national priorities among the known sites throughout the United States at which releases or threatened releases of hazardous substances, pollutants, or contaminants may occur. This list is known as the National Priorities List (NPL).

The remedies selected for an NPL site are documented in a record of decision (ROD). Remedies implemented at NPL sites or NPL-equivalent sites in accordance with RODs are known as Superfund remedial actions, and such sites are known as Superfund remedial action sites. Because selected remedies vary in the type of media addressed and the methods used to address those media, confusion can arise when assigning a type to a particular remedy. Categorizing remedies by types can facilitate the transfer of experience and technology by making it easier to identify sites at which similar remedies are applicable. Establishing and applying a methodology for classifying remedy types can provide a consistent and comprehensive approach for reviewing and comparing remedies used in RODs. In addition, use of such an approach can lead to more consistent data collection and reporting and assist remedial project managers (RPMs), On-Scene Coordinators (OSCs), and other regulatory and remediation professionals in the transfer of experience and technology among Superfund sites and in identifying sites implementing similar remedies. This appendix describes the approach used to classify remedies and RODs for the SRR.

Remedies were classified by reviewing the remedies selected in RODs. Although RODs are written using a consistent overall format, RODs are prepared by individual RPMs and other EPA regional staff, resulting in variations in terminology and description from ROD to ROD. Management practices and techniques used to remediate sites have evolved over time resulting in additional changes to terminology. To facilitate the identification of remedy types, this appendix includes both descriptive definitions of remedy types and lists of key words and phrases that may be used to refer to each remedy type.

The definitions of remedy types provided in this appendix are based on a review of definitions and lists of media, remedies, and technologies provided in the following resources:

- The CERCLA Information System (CERCLIS3) database
- RODs, ROD amendments, and selected ESDs for fiscal years (FY) 1982–2008
- The Federal Remediation Technologies Roundtable (FRTR) Technology Screening Matrix, Version 4.0
- SRR 13th edition

The remedy type definitions were reviewed and augmented by a working group of personnel of the U.S. Environmental Protection Agency (EPA) Office of Solid Waste and Emergency Response (OSWER) who are experienced in site remediation and ROD preparation and review.

H.2 CLASSIFYING REMEDIES AND RODS

Remedy types were identified by first dividing remedies into three categories (source control, groundwater, and no action) based on the media treated and the type of action. Within each of these categories, the remedies were then further divided into the following 10 specific remedy types:

Source Control Remedies:

1. Source control treatment
2. Source control containment

3. Source control other
4. Source control monitored natural attenuation and monitored natural recovery

Groundwater Remedies:

5. Groundwater *in situ* treatment
6. Groundwater pump and treat
7. Groundwater containment barriers
8. Groundwater other
9. Groundwater monitored natural attenuation

No Action Remedies:

10. No action or no further action (NA/NFA)

RODs were classified using the 10 remedy types listed above. When more than one remedy type was selected in the same ROD, the ROD was assigned all of the remedy types that were identified.

The definitions that were used to identify each remedy type are provided in the “Definitions” section below. When definitions include specific technologies and those technologies commonly are referred to by more than one word or phrase, the most commonly used word or phrase is listed first, followed by synonyms in parentheses.

H.3 DEFINITIONS USED TO IDENTIFY REMEDY TYPES

H.3.1 General Definitions

The definitions of treatment technology and the different types of treatment technologies (physical, chemical, thermal, and biological treatment) apply to both source control and groundwater remedies.

Treatment Technology - Any unit operation or series of unit operations that alters the composition of a hazardous substance, pollutant or contaminant through chemical, biological, or physical means so as to reduce toxicity, mobility, or volume of the contaminated materials being treated. Treatment technologies are an alternative to land disposal of untreated hazardous wastes (Federal Register, volume 55, page 8819, 40 CFR 300.5: Definitions). Treatment technologies are grouped into five categories. The definitions for four of the categories (physical treatment, chemical treatment, thermal treatment, and biological treatment) are based on definitions provided in the FRTR Technology Screening Matrix. The fifth category, other or unspecified treatment, includes those technologies that do not fit into the first four categories. The five treatment technology categories are:

Physical Treatment - Uses the physical properties of the contaminants or the contaminated medium to separate or immobilize the contamination.

Chemical Treatment - Chemically converts hazardous contaminants to non-hazardous or less toxic compounds or compounds that are more stable, less mobile, and/or inert. Even though a chemical reaction is not always involved in chemical precipitation, chemical precipitation is typically included in this category.

Thermal Treatment - Uses heat to: separate contaminants from contaminated media by increasing their volatility; destroy contaminants or contaminated media by burning, decomposing, or detonating the contaminants or the contaminated media; or immobilize contaminants by melting and solidifying the contaminated media.

Biological Treatment - Includes adding or stimulating the growth of microorganisms, which metabolize contaminants or create conditions under which contaminants will chemically convert to non-hazardous or less toxic compounds or compounds that are more stable, less mobile, and/or inert. Phytoremediation, the use of plants to remove, stabilize, or destroy contaminants, is included in the definition of biological treatment.

Other or Unspecified Treatment - Treatment that cannot be classified as physical treatment, chemical treatment, thermal treatment, or biological

treatment. For example, some RODs select physical/chemical treatment of a source without specifying the particular physical/chemical treatment. In such cases, the ROD was not definitively classified

as physical or chemical treatment and was classified as other or unspecified treatment, unspecified physical/chemical treatment.

H.3.2 Source Control

Source Media - A source medium is defined as a material that acts as a reservoir, either stationary or mobile, for hazardous substances. Source media include or contain hazardous substances, pollutants, or contaminants that may migrate to the groundwater, to surface water, to air, (or to other environmental media) or act as a source for direct exposure. Contaminated groundwater generally is not considered to be a source material although nonaqueous phase liquids (NAPLs [occurring either as residual- or free-phase]) may be viewed as source materials. (*A Guide to Principal Threat and Low Level*

Threat Wastes, Superfund publication 9355.3-02FS, USEPA OSWER 1991). Source media include soil, sediment, sludge, debris, solid-matrix wastes, surface water, NAPLs, equipment, drums, storage tanks, leachate, landfill gas, and any other contaminated media other than groundwater that can act as a potential source of contamination.

Source Control Remedy - any removal, treatment, containment, or management of any contaminant source or contaminated medium other than groundwater.

I. Source Control Treatment

Any process meant to separate and remove, destroy, or bind contaminants in a source medium. Key words used in RODs to identify these processes are listed below. Additional detail about these technologies can be found in the ASR at www.clu-in.org/asr or on the Federal Remediation Technologies Roundtable Web site at www.frtr.gov.

Physical Treatment

Acid extraction
Air stripping
Carbon adsorption (liquid-phase carbon adsorption)
Clarification (sedimentation)
Decontamination
Dewatering
Electrical separation (electrokinetic separation)
Evaporation
Filtration
Flushing (soil flushing and surfactant flushing)
Free product recovery
Ion exchange
Magnetic separation
Membrane filtration (microfiltration, nanofiltration, reverse osmosis, ultrafiltration)
Multi-phase extraction (free product recovery)

Oil/water separation (free product recovery)
Physical separation (component separation and materials handling)
Soil vapor extraction (vacuum extraction and vapor extraction)
Soil washing or sediment washing
Solidification/stabilization (asphalt batching, immobilization, *in situ* geochemical fixation, *in situ* sediment stabilization, and microencapsulation)
Solid-phase extraction
Solvent extraction (chemical stripping)
Steam stripping
Super-critical fluid extraction
Volatilization (aeration, mechanical soil aeration, and tilling)

Chemical Treatment

Chemical oxidation (cyanide oxidation, oxidation, and peroxidation)
 Chemical reduction (reduction)
 Chemical treatment (chemical reduction/oxidation and remedy type not further specified)
 Dehalogenation (dechlorination)
 Flocculation
 Metals precipitation

Nanoremediation (nanoparticles, nanotechnology, nanoscale zero valent iron [nZVI])
 Neutralization (pH neutralization)
 Permeable reactive barrier (chemical reactive barrier, chemical reactive wall, leachate reactive wall, and passive treatment wall)
 Ultraviolet (UV) oxidation

Thermal Treatment

Controlled detonation
 Flaring (gas flaring)
 High energy corona
 Open burning/open detonation
 Plasma high-temperature recovery (fuming gasification and high-temperature metals recovery)
 Thermal desorption
 Thermal destruction (incineration and pyrolysis)
 Thermal treatment (remedy type not further specified)

In situ thermal treatment (conductive heating, Contained Recovery of Oily Wastes [CROW®], dynamic underground stripping, electrical resistance heating, hot air injection, *in situ* thermal desorption, microwave heating, radio frequency heating, steam injection, and thermally-enhanced soil vapor extraction)
 Vitrification (slagging)

Biological Treatment

Aeration (for purpose of bioremediation, tilling)
 Bioaugmentation (addition of microorganisms)
 Biopile
 Bioreactor
 Bioremediation (biological treatment, remedy type not further specified)
 Bioslurping
 Biostimulation (nitrate enhancement, nutrient injection, substrate injection)
 Bioventing
 Co-metabolic treatment
 Composting
 Controlled solid phase

Fixed film reactors
 Landfarming
 Oxygen enhancement with air sparging (biosparging)
 Oxygen enhancement with hydrogen peroxide (H₂O₂)
 Permeable treatment bed (for purpose of bioremediation)
 Phytoremediation
 Slurry-phase bioremediation (bioslurry, activated sludge)
 White rot fungus

Other or Unspecified Treatment

Air emission treatment
 Fracturing (pneumatic fracturing, hydraulic fracturing)
 Gas collection and treatment (off-gas treatment)
 Hot gas decontamination
 Leachate treatment

Publicly owned treatment works (POTW)
 Recycling
 Surface water treatment
 Treatment of residuals
 Unspecified physical/chemical treatment
 Unspecified treatment

2. Source Control Containment

Any process or structure designed to prevent contaminants from migrating from a source medium into groundwater, to surface water, to air, (or to other environmental media) or acting as a source for direct exposure. Key words used in RODs to identify source control containment remedies are listed below:

Capping and Cover

Cap (impermeable barrier, RCRA cap)	Subaqueous sediment cap
Cover material	
Evapotranspiration cover	

Bottom Liner

Clay	Liner (impermeable barrier)
Geosynthetic material	

Drainage and Erosion Control

Engineering control (remedy type not further specified)	Subsurface drain (leachate control)
Hydraulic control	Surface water control (dike, berm, drainage controls, drainage ditch, erosion control, flood protection, levee, permanent stream channel relocation)
Impermeable barrier	
Revegetation	
Slope stabilization	

On-Site Landfilling

On-site consolidation	On-site landfilling (remedy type not further specified)
On-site disposal	

Off-Site Landfilling

Off-site consolidation	Off-site landfilling (remedy type not further specified)
Off-site disposal	

Vertical Engineered Barrier

(When used as a remedy for a source medium [including subsurface NAPLs]. Vertical subsurface engineered barriers used to control or contain groundwater were not considered source control containment.)

Grout (grout curtain)	Impermeable barrier
	Sheet piling
	Slurry wall
	Subsurface barrier
	Vertical barrier

Other or Unspecified Containment

Containment (consolidation, disposal, landfilling, and removal)	Permanent storage
Encapsulation (overpacking)	Replacement/repair (pipe repair, sewer repair, and tank repair)
Leachate control (leachate collection, leachate discharge, leachate recovery wells, leachate reinjection)	Surface water management (surface water collection, surface water discharge, surface water recovery wells, surface water reinjection)
Liquid waste management (liquid waste collection, liquid waste discharge, liquid waste recovery wells, liquid waste reinjection)	

3. Source Control Other

Source control remedies that do not fall into the categories Source Control Treatment or Source Control Containment.

Institutional Control

The classification of institutional controls is based on *Institutional Controls: A Site Manager's Guide to Identifying, Evaluating, and Selecting Institutional Controls at Superfund and RCRA Corrective Action Cleanups*, OSWER 9355.0-74FS-P, EPA 540-F-00-005, September 2000. The remedy definitions outlined in this appendix differ from those historically used to classify institutional control remedies. This classification system groups institutional controls into 4 categories. Listed below are these four categories. Beneath each category, the terms historically applied to institutional controls that are most likely to fall under the categories are listed. The list below also adds a fifth category, "Institutional control (remedy type not further specified)" for cases where the particular institutional control selected is not recorded in a ROD.

1. Governmental control

Access restriction
Drilling restriction
Fishing restriction
Guard (security)
Recreational restriction
Surface water restriction
Swimming restriction
Water supply use restriction

2. Proprietary control

Deed notification
Deed restriction
Land use restriction

3. Enforceable agreement

Access agreement

4. Informational device

5. Institutional control

(remedy type not further specified)

Engineering Control

Dust suppression
Engineering control (remedy type not further specified)
Enhanced natural recovery of sediments (thin layer placement, particle broadcasting)

Fencing
Shoreline stabilization
Water table adjustment
Wetland mitigation
Wetland replacement

Source Monitoring

Monitoring

Sampling

Population Relocation

Population relocation

Surface Water Supply Remedies

Alternative water supply (alternative drinking water, bottled water)
Carbon at tap

Well head treatment

4. Source Control Monitored Natural Attenuation (MNA) or Monitored Natural Recovery (MNR)

The reliance on natural attenuation processes (within the context of a carefully controlled and monitored approach to site cleanup) to achieve site-specific remediation objectives within a timeframe that is reasonable, compared with that offered by other, more active methods. The “natural attenuation processes” that are at work in such a remediation approach include a variety of physical, chemical, or biological processes that, under favorable conditions, act without human intervention to reduce the mass, toxicity, mobility, volume, or concentration of contaminants in soil or groundwater. These *in situ* processes include biodegradation; dispersion; dilution; sorption; volatilization; radioactive decay; and chemical or biological stabilization, transformation, or destruction of contaminants (*Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites*, USEPA OSWER, Directive Number 9200.4-17P, 1999).

A remedy was considered source control MNA if it included “natural attenuation” or “monitored natural attenuation” for a source (e.g., contaminated soil).

Sediment MNR may rely on a wide range of naturally occurring processes to reduce risk from contaminated sediments to human and/or ecological receptors. These processes may include physical, biological, and chemical mechanisms that act together to reduce the risk posed by the contaminants. The key difference between MNA for groundwater and MNR for sediment is in the type of processes most often being relied upon to reduce risk. Transformation of contaminants is usually the major attenuating process for contaminated groundwater; however, these processes are frequently too slow for the persistent contaminants of concern (COCs) in sediment to provide for remediation in a reasonable time frame. Therefore, isolation and mixing of contaminants through natural sedimentation is the process most frequently relied upon for contaminated sediment (*Contaminated Sediment Remediation Guidance for Hazardous Waste Sites*, USEPA OSWER, EPA-540-R-05-012, 2005).

Sediment remediation via enhanced natural recovery was considered source control treatment rather than source control MNR.

H.3.3.Groundwater Remedies

Groundwater Remedy - Management of groundwater. Groundwater remedies can include *in situ* treatment, pump and treat, containment using vertical engineered barriers, MNA, and other measures to address groundwater.

Groundwater Media - One or more aquifers beneath or proximal to a source medium, contaminated by migration of contaminants, such as leachate, or by other sources.

5. Groundwater *In Situ* Treatment

Treatment of groundwater without extracting it from the ground. Key words used in RODs to identify groundwater *in situ* treatment remedies are listed below:

Physical Treatment

- | | |
|-------------------------------------------------------------------------------|------------------------------------------------|
| Air sparging | Multi-phase extraction (free product recovery) |
| Electrical separation (electrokinetic separation) | Ozone sparging |
| <i>In situ</i> geochemical fixation | Surfactant flushing |
| In-well air stripping (well aeration, air stripping, groundwater circulation) | Vapor extraction |

Chemical Treatment

Chemical oxidation (cyanide oxidation, oxidation, and peroxidation)	Nanoremediation (nanoparticles, nanotechnology, nanoscale zero valent iron [nZVI])
Chemical reduction (reduction)	Ozone sparging
Chemical treatment (chemical reduction/oxidation and remedy type not further specified)	Permeable reactive barrier (chemical reactive barrier, chemical reactive wall, and passive treatment wall)
Dehalogenation (dechlorination)	

Biological Treatment

Aeration (for purpose of bioremediation)	Bioventing
Bioaugmentation (addition of microorganisms)	Co-metabolic treatment
Biobarrier (biological permeable reactive barrier)	Oxygen enhancement with air sparging (biosparging)
Bioremediation (biological treatment, remedy type not further specified)	Oxygen enhancement with hydrogen peroxide (H ₂ O ₂)
Bioslurping	Phytoremediation
Biostimulation (nitrate enhancement, nutrient injection, substrate injection)	

Other or Unspecified Treatment

Fracturing (pneumatic fracturing, hydraulic fracturing)	Unspecified physical/chemical treatment
Treatment of residuals	Unspecified treatment

6. Groundwater Pump and Treat

Extraction of groundwater from an aquifer followed by treatment above ground. Key words used in RODs to identify groundwater pump and treat remedies are listed below:

Physical Treatment

Aeration (air stripping)	Evaporation
Carbon adsorption (liquid-phase carbon adsorption)	Filtration
Clarification (sedimentation)	Ion exchange
Coagulation	Membrane filtration (microfiltration, nanofiltration, reverse osmosis, ultrafiltration)
Component separation	Oil/water separation (free product recovery)
Equalization	

Chemical Treatment

Chemical oxidation (cyanide oxidation, oxidation, and peroxidation)	Flocculation
Chemical reduction	Metals precipitation
Chemical treatment (chemical reduction/oxidation and remedy type not further specified)	Neutralization (pH neutralization)
	Ultraviolet (UV) oxidation

Biological Treatment

Biological treatment (remedy type not further specified)
 Bioreactors
 Fixed film reactors

Oxygen enhancement with hydrogen peroxide (H_2O_2)
 Wetlands treatment (constructed wetlands, engineered wetlands)

Other or Unspecified Treatment

Centralized waste treatment facility
 Fracturing (pneumatic fracturing, hydraulic fracturing)
 Publicly owned treatment works (POTW)

Pumping and unspecified ex-situ treatment
 Treatment of residuals
 Unspecified *ex situ* physical/chemical treatment
 Unspecified treatment

Groundwater Extraction

The process of removing groundwater from beneath the ground surface, including the following methods of groundwater extraction:

Directional well (horizontal well)
 Pumping (recovery well, vertical well)
 Recovery trench (horizontal drain)
 Subsurface drain

Groundwater Discharge and Management

A method of discharging or otherwise managing extracted groundwater, including the following discharge methods and receptors:

Deep well injection (Class I well)
 Recycling
 Reuse as drinking water
 Reuse as irrigation water

Reuse as process water
 Surface drain reinjection (infiltration basin, infiltration trench)
 Surface water discharge (National Pollutant Discharge Elimination System [NPDES] discharge)
 Vertical well reinjection (into contaminated aquifer)

7. Groundwater Containment

Containment of groundwater, typically through the use of vertical engineered barriers. Key words used in RODs to identify groundwater containment remedies are listed below:

Vertical Engineered Barrier

Deep soil mixing (barrier installation technique)
 Geosynthetic wall
 Grout (grout curtain)
 High-density polyethylene (HDPE) wall
 Impermeable barrier

Sheet piling
 Slurry wall
 Subsurface vertical engineered barrier (subsurface barrier, subsurface vertical barrier)

Other or Unspecified Containment

Plume containment (hydraulic containment of plume, plume management, plume migration control)

8. Groundwater Other

Groundwater remedies that do not fall into the categories Groundwater *In Situ* Treatment, Groundwater Pump and Treat, Groundwater Containment, or Groundwater Monitored Natural Attenuation.

Institutional Control

The classification of institutional controls is based on *Institutional Controls: A Site Manager's Guide to Identifying, Evaluating, and Selecting Institutional Controls at Superfund and RCRA Corrective Action Cleanups* (OSWER 9355.0-74FS-P, EPA 540-F-00-005, September 2000). The remedy definitions outlined in this guidance differ from those historically used to classify institutional control remedies. This classification system groups institutional controls into 4 categories. Listed below are these four categories. Beneath each category, the terms historically applied to institutional controls that are most likely to fall under the categories are listed. The list below also adds a fifth category, "Institutional control (remedy type not further specified)" for cases where the particular institutional control selected is not recorded in a ROD.

1. Governmental control

Access restriction

Drilling restriction
Fishing restriction
Groundwater restriction
Guard (security)
Recreational restriction
Surface water restriction
Swimming restriction
Water supply use restriction

2. Proprietary control

Deed notification
Deed restriction
Land use restriction

3. Enforceable agreement

Access agreement

4. Informational device

5. Institutional control

(remedy type not further specified)

Engineering Control

Engineering control (berm, dike, drainage ditch, levee)
Trees for groundwater gradient control

Water table adjustment
Wetland replacement

Groundwater Monitoring

Monitoring

Sampling

Population Relocation

Population relocation

Water Supply Remedies

Alternative water supply (alternative drinking water and bottled water)
Carbon at tap
Extend piping to existing water main
Install new surface water intake

Install new water supply wells
Seal well (close well)
Treat at use location
Well head treatment

9. Groundwater MNA

The reliance on natural attenuation processes (within the context of a carefully controlled and monitored approach to site cleanup) to achieve site-specific remediation objectives within a time frame that is reasonable, compared with that offered by other, more active methods. The “natural attenuation processes” that are at work in such a remediation approach include a variety of physical, chemical, or biological processes that, under favorable conditions, act without human intervention to reduce the mass, toxicity, mobility, volume, or concentration of contaminants in soil or groundwater. These *in situ* processes include biodegradation; dispersion; dilution; sorption; volatilization; radioactive decay; and chemical or biological stabilization, transformation, or destruction of contaminants (*Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites*, USEPA, Office of Solid Waste and Emergency Response, Directive Number 9200.4-17P, 1999).

A remedy was considered groundwater MNA if it included “natural attenuation” or “monitored natural attenuation” of groundwater.

H.3.4 No Action Remedies

10. NA/NFA

The designation used for remedies that indicate no action or no further action will be taken. When determining overall ROD type, the designation was used only for RODs under which NA/NFA is the only remedy selected. If a ROD selected NA/NFA for one part of a site and different remedy for another part of a site, the ROD was given the classification corresponding to that selected remedy rather than an NA/NFA designation.

H.4 SPECIAL CASES

This subsection provides a list of some special cases and descriptions of how remedy types were assigned in those cases:

Decontamination - The remedy type for decontamination of buildings, equipment, tanks, debris, boulders, rocks, or other objects was considered source control treatment. For example, abrasive blasting or scarifying a concrete pad to remove the contaminated surface layer of the pad were identified as source control treatment.

Decontamination of equipment used to clean up a Superfund site is a normal activity that occurs at many Superfund sites and was not considered a remedy. For example, high-pressure water washing of a front end loader used to excavate contaminated soil was not considered a remedy and was not assigned a remedy type.

Phytoremediation - Phytoremediation involves the use of macroscopic plants to destroy, remove, immobilize, or otherwise treat contaminants. While this technology may include the use of microorganisms

in conjunction with plants, it is distinguished from bioremediation in that bioremediation does not use macroscopic plants. Remedies that used microorganisms without macroscopic plants were identified as bioremediation.

The use of plants to control surface water drainage or groundwater gradient at a site is not phytoremediation. Such remedies were identified as engineering controls (source control other or groundwater other).

Remedies Based on Site Characteristics - If a ROD indicated that a certain remedy would be implemented based on certain site characteristics, the ROD was considered to have selected the remedy. For example, a ROD may specify that if soils exceed a certain level of contamination they will be incinerated, but if they do not exceed that level, no further action will be taken. In such a case, the ROD was considered to have selected incineration and therefore was considered a source control treatment ROD.

Vertical Engineered Barriers - Some of the technologies used for vertical engineered barriers are also used to control surface water and surface drainage (for example, slurry walls and sheet piles). Where these remedies were used to contain groundwater, they were identified as groundwater containment.

Solidification/Stabilization - Some of the technologies used for solidification/stabilization can be used for either treatment or containment. For example, “encapsulation” of a waste in plastic drums is source control containment. “Encapsulation” of a waste by mixing with a monomer and then causing it to polymerize, resulting in microencapsulation, is source control treatment. In general, containment involves isolating bulk wastes, while solidification/stabilization involves incorporating the contaminants into a matrix so that their leachability is reduced.

Water Table Adjustment - Where water table adjustment was used to prevent the groundwater from coming into contact with a contaminated source medium, it was identified as source control other, engineering control. Where water table adjustment was used to treat groundwater, it was classified as groundwater other, engineering control.

Subsurface Drain - When a subsurface drain was used in order to prevent contact of precipitation runoff with a source or to prevent erosion, it was considered source control containment, drainage and erosion control. When a subsurface drain was used to extract groundwater prior to treatment of

the groundwater, it was classified as groundwater pump and treat, groundwater extraction.

Treatment of Residuals - Residuals are the matter that results from a treatment process. For example, the residuals from incineration of soil can include ash, off-gasses, and scrubber blowdown from off-gas treatment. In the preceding example, treatment of off-gasses using a scrubber was classified as treatment of residuals. Where treatment of residuals was specified in a ROD, the existence of residuals treatment was identified, but no additional information on the treatment of residuals was collected.

Air Media - Air media include sources that are in a gaseous form, such as landfill gas or hazardous gasses stored in compressed gas cylinders. When remedies for air media were selected in a ROD they were identified as source control remedies. For example, collection and treatment of landfill gas was classified as source control treatment. Air emissions from equipment used to treat sources or groundwater are not air media. For example, a ROD may specify that groundwater will be extracted and treated by air stripping, and the off-gas generated by the air stripping must be treated by activated carbon adsorption. In such a case, the ROD was classified as groundwater pump-and-treat (both physical treatment, aeration [air stripping]; and other or unspecified treatment, treatment of residuals), but was not classified as a source control treatment ROD.