

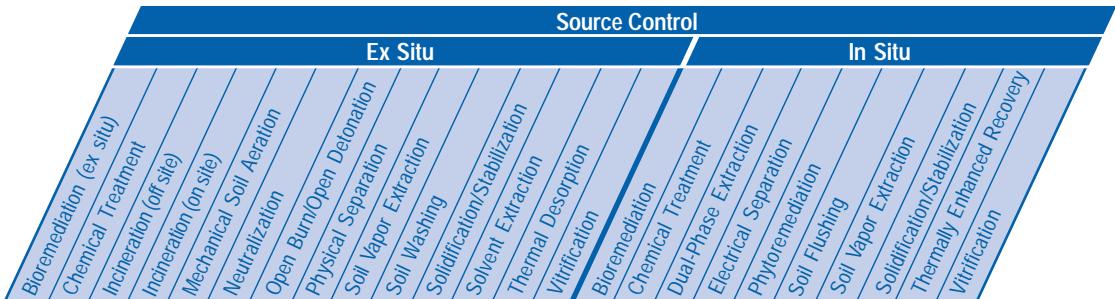
APPENDIX B

SUPERFUND TREATMENT TECHNOLOGY SUMMARY MATRIX

This appendix does not appear in the printed version of Treatment Technologies for Site Cleanup: Annual Status Report (Tenth Edition). This appendix is available in the on-line version of this report at <http://clu-in.org/asr>.

REGION 1

Source Control Treatment Technology Summary Matrix



SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																STATUS			
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytochemical Treatment	Soil Flushing
Kellogg-Deering Well Field	CT	1989	Remedial																♦			O	
Linemaster Switch Corporation	CT	1993	Remedial																♦			O	
Baird & McGuire - OU 2 (Soil)	MA	1986	Remedial		♦																	C	
Baird & McGuire - OU 3 (Sediments)	MA	1989	Remedial			♦																C	
Cannon Engineering - Bridgewater OU	MA	1988	Remedial												♦							C	
Groveland Wells	MA	1988	Remedial																♦			O	
Otis Air National Guard Area of Contamination CS16 and CS17 OU11	MA	1999	Remedial									♦										PD	
Otis Air National Guard Fuel Spill No 9 OU10	MA	1999	Remedial								♦											PD	
Otis Air National Guard OU 8	MA	1999	Remedial								♦											PD	
PSC Resources	MA	1992	Remedial								♦											C	
Re-Solve, Inc.	MA	1987	Remedial											♦								C	
Rose Disposal Pit	MA	1988	Remedial		♦																	C	
Silresim Chemical	MA	1991	Remedial																♦			O	
W.R. Grace (Acton Plant) And Co., Inc.	MA	1989	Remedial		♦																	C	
W.R. Grace (Acton Plant) And Co., Inc.	MA	1989	Remedial										♦									C	
Wells G&H - OU 1 (New England Plastics)	MA	1989	Remedial																♦			O	
Wells G&H - OU 1 (Wildwood Conservation Trust)	MA	1989	Remedial																♦			O	
Wells G&H - OU 1 (Wildwood Conservation Trust)	MA	1991	Remedial		♦																	C	
Loring AFB - OU 10, Entomology Shop	ME	1995	Removal																♦			O	
Loring AFB - OU 11 Fuel Tanks Farm LI	ME	1995	Removal												♦							O	
Loring AFB - OU 11, Base Laundry	ME	1996	Removal																♦			O	
Loring AFB - OU 11, Fuels Tank Farm (FTF)	ME	1995	Removal											♦								O	
Loring AFB - OU 5, Base Exchange Service Station	ME	1995	Removal											♦								O	
Loring AFB - OU 5, Former Jet Engine Test Cell	ME	1995	Removal										♦									O	
Loring AFB - OU 5, Nose Dock Area 6	ME	1995	Removal										♦									O	

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REGION 1

Source Control Treatment Technology Summary Matrix (continued)

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS		
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery
Loring AFB - OU 5, Nose Dock Area 1	ME	1995	Removal														♦									0
Loring AFB - OU 5, Nose Dock Area 2	ME	1995	Removal														♦									0
Loring AFB - OU 5, Nose Dock Area 3	ME	1995	Removal														♦									0
Loring AFB - OU 5, Nose Dock Area 4	ME	1995	Removal														♦									0
Loring AFB - OU 5, Nose Dock Area 5	ME	1995	Removal														♦									0
Loring AFB - OU 5, Nose Dock Area 7	ME	1995	Removal														♦									0
Loring AFB - OU 5, Nose Dock Area 8	ME	1995	Removal														♦									0
Loring AFB - OU 8, Fire Training Area	ME	1995	Removal														♦									C
Loring AFB - OU 9, Auto Hobby Shop Area	ME	1995	Remedial														♦									0
Loring AFB - OU 9, Power Plant Drainage Pipe (PDDP)/Former Vehicle Maintenance Motor Pool	ME	1995	Removal														♦									C
Mckin Co.	ME	1985	Remedial														♦									C
Pinette's Salvage Yard - Amendment	ME	1993	Remedial		♦																					C
Union Chemical - OU 1	ME	1994	Remedial																							0
Fletchers Paint Works & Storage - OU 01	NH	1998	Remedial														♦									PD
Kearsarge Metallurgical Corp.	NH	1990	Remedial		♦																					C
Mottolo Pig Farm	NH	1991	Remedial																							C
New Hampshire Plating Co. - OU 01	NH	1998	Remedial															♦								PD
Ottati & Goss/Kingston Steel Drum	NH	1987	Remedial														♦									C
Ottati & Goss/Kingston Steel Drum - OU 4	NH	1987	Remedial														♦									PD
Pease Air Force Base - Site 45	NH	1995	Remedial																							0
Pease Air Force Base - Site 8	NH	1994	Remedial																							0
Pease Air Force Base - Zone 2	NH	1995	Remedial																							0
Savage Municipal Water Supply - OU 1, OK Tool Source Area	NH	1997	Remedial																							0
Sylvester Dump	NH	1983	Remedial																							C
Tibbetts Road	NH	1992	Remedial																							C

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REGION 1

Source Control Treatment Technology Summary Matrix (continued)

	Source Control		Ex Situ	In Situ
Bioremediation (ex situ)				
Chemical Treatment				
Incineration (off site)				
Incineration (on site)				
Mechanical Soil Aeration				
Neutralization				
Open Burn/Open Detonation				
Physical Separation				
Soil Vapor Extraction				
Soil Washing				
Solidification/Stabilization				
Solvent Extraction				
Thermal Desorption				
Vitrification				
Bioremediation				
Chemical Treatment				
Dual-Phase Extraction				
Phytoremediation				
Soil Flushing				
Soil Vapor Extraction				
Solidification/Stabilization				
Thermally Enhanced Recovery				
Vitrification				

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																STATUS			
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Phytoremediation	Soil Flushing	Soil Vapor Extraction
Tinkham Garage - OU 1	NH	1986	Remedial																♦				C
Davis Liquid Waste	RI	1996	Remedial												♦								BI
Davisville Naval Construction Battalion Center	RI	1993	Remedial		♦																		C
Peterson/Puritan Inc. - OU 1, CCL Area	RI	1993	Remedial																♦				O
Picillo Farm Site	RI	1993	Remedial																♦				BI
Stamina Mills	RI	1990	Remedial																♦				O

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REGION 2

Source Control Treatment Technology Summary Matrix

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																STATUS			
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing
A O Polymer - Soil Treatment Phase	NJ	1991	Remedial																♦				O
American Cyanamid Co. - Group I Impoundments (11, 13, 19, And 24)	NJ	1993	Remedial																♦				O
American Cyanamid Co. - Group II Impoundments (15, 16, 17, And 18)	NJ	1996	Remedial										♦										PD
Asbestos Dump - New Vernon Road and White Bridge Road Cleanup	NJ	1991	Remedial																♦				C
Bog Creek Farm - OU 1	NJ	1985	Remedial			♦																	C
Bog Creek Farm - OU 2	NJ	1989	Remedial			♦																	C
Bridgeport Rental & Oil Services	NJ	1985	Remedial			♦																	C
Caldwell Trucking - Amendment	NJ	1995	Remedial																♦				C
Caldwell Trucking - OU 1	NJ	1993	Remedial			♦																	C
Caldwell Trucking - OU 1	NJ	1995	Remedial																♦				C
Chemical Control	NJ	1987	Remedial									♦											C
Cosden Chemical Coatings	NJ	1998	Remedial								♦												PD
Cosden Chemical Coatings	NJ	1998	Remedial																	♦			PD
Curcio Scrap Metal, Inc.	NJ	1991	Remedial			♦																	C
Dayco Corp./L.E. Carpenter Co., NJ	NJ	1994	Remedial													♦							O
Ewan Property - OU 1	NJ	1988	Remedial			♦																	C
FAA Technical Center - Area 20 A (Salvage Yard)	NJ	1990	Remedial			♦																	O
FAA Technical Center - Area B Navy Fire Testing Facility	NJ	1996	Remedial																♦				PD
FAA Technical Center - OU 1, Area D - Jet Fuel Farm	NJ	1989	Remedial																♦				O
Federal Creosote Site OU 1	NJ	1999	Remedial			♦																	PD
Garden State Cleaners	NJ	1991	Remedial																♦				C
Industrial Latex - OU 1	NJ	1992	Remedial										♦										O
King Of Prussia	NJ	1990	Remedial										♦										C

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REGION 2

Source Control Treatment Technology Summary Matrix (continued)

Site Name	State	FY	Action	Technology Type																Status					
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization
Lipari Landfill	NJ	1985	Remedial														♦								BI
Lipari Landfill - OU 2	NJ	1985	Remedial																♦						O
Lipari Landfill Marsh Sediment - OU 3	NJ	1988	Remedial												♦										C
Metaltec/Aerosystems - OU 1	NJ	1986	Remedial												♦										C
Myers Property	NJ	1990	Remedial											♦											PD
Myers Property	NJ	1990	Remedial	♦																					PD
Myers Property	NJ	1990	Remedial												♦										PD
Nascolite Corporation - OU 2	NJ	1991	Remedial										♦												BI
Naval Air Engineering Center - OU 23	NJ	1993	Remedial																	♦					O
Naval Air Engineering Center - Site 16 Under Area C	NJ	1996	Remedial													♦									O
Naval Air Engineering Center - Site 17 Under Area C	NJ	1996	Remedial																	♦					O
Naval Air Engineering Station, Site 28	NJ	1997	Remedial																	♦					O
Naval Weapons Station Earle (Site A) - OU 03	NJ	1998	Remedial																	♦					PD
NL Industries, Inc.	NJ	1991	Remedial											♦											C
NL Industries, Inc. - OU 1	NJ	1994	Remedial										♦												PD
Pulverizing Services OU1-Incineration	NJ	1999	Remedial	♦																					O
Pulverizing Services OU1-Thermal Desorption	NJ	1999	Remedial												♦										O
Reich Farm	NJ	1988	Remedial												♦										C
South Jersey Clothing Company	NJ	1991	Remedial																	♦					O
Swope Oil & Chemical	NJ	1985	Remedial	♦																					C
Swope Oil & Chemical - OU 2	NJ	1991	Remedial																	♦					O
Universal Oil Products	NJ	1993	Remedial										♦												O
Vineland Chemical Co., Inc.	NJ	1992	Removal															♦							C
Vineland Chemical Co., Inc. - OU 1	NJ	1989	Remedial																	♦					PD
Vineland Chemical Co., Inc. - OU 3 & 4	NJ	1989	Remedial										♦												BI
Waldick Aerospace Devices, Inc.	NJ	1991	Remedial										♦												C

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REGION 2

Source Control Treatment Technology Summary Matrix (continued)

	Source Control																							
	Ex Situ							In Situ																
	Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	Vitrification

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE															STATUS
Waldick Aerospace Devices, Inc. - OU 1	NJ	1987	Remedial											♦					C
Williams Property	NJ	1987	Remedial		♦														C
Woodland Route 532 Dump (Amendment)	NJ	1999	Remedial															♦	PD
Woodland Routes 72 Dump (Amendment)	NJ	1999	Remedial															♦	PD
American Thermostat Co.	NY	NA	Removal															♦	C
American Thermostat Co. - Phase 1	NY	1990	Remedial											♦					C
American Thermostat Co. - Phase 2	NY	1997	Remedial											♦					C
Brookhaven National Laboratory (USDOE) - OU 4	NY	1996	Remedial															♦	O
Byron Barrel & Drum - OU 1/02	NY	1989	Remedial															♦	PD
Claremont Polychemical - Soil Remedy	NY	1990	Remedial											♦					C
Facet Enterprises	NY	1992	Remedial											♦					C
FMC Corp. (Dublin Road)	NY	1993	Remedial											♦					C
Fulton Terminals - Soil Treatment	NY	1989	Remedial											♦					C
GCL Tie And Treating - OU 1	NY	1994	Remedial											♦					O
General Motors/Central Foundry Division - OU 1 & OU 2	NY	1992	Remedial											♦					PD
Genzale Plating Company - OU 1	NY	1991	Remedial															♦	C
Hooker (102nd Street Landfill) - Amendment	NY	1995	Remedial		♦														O
Hooker Chemical/Ruco Polymer	NY	1990	Remedial		♦														C
Hooker Chemical/Ruco Polymer - OU 1	NY	1994	Remedial															♦	PD
Kentucky Avenue Wellfield - OU 3	NY	1996	Remedial															♦	PD
Lehigh Valley Railroad Derailment OU1	NY	1999	Remedial											♦					PD
Love Canal - 05	NY	1997	Remedial		♦														C
Marathon Battery Corp. - Areas I, II, And III	NY	1986	Remedial											♦					C
Mattiace Petrochemicals - OU 2	NY	1990	Remedial		♦														C
Mattiace Petrochemicals - OU 3 and 4	NY	1991	Remedial															♦	O
Olean Well Field - OU 2, Alcas Property	NY	1996	Remedial															♦	PD

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REGION 2

Source Control Treatment Technology Summary Matrix (continued)

Site Name	State	FY	Action	Technology Type																Status			
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing
Pasley Solvents And Chemicals, Inc.	NY	1992	Remedial																♦				O
Plattsburgh AFB - Bldg. 2774, SS-017	NY	1996	Removal																♦				O
Plattsburgh AFB - Bldg. 2774, SS-017	NY	1996	Removal													♦							O
Plattsburgh AFB - Fire Training Area, Ft-002	NY	1996	Removal																♦				O
Plattsburgh AFB - Fire Training Area, Ft-002	NY	1996	Removal													♦							O
Preferred Plating Corp. - OU 2	NY	1992	Remedial									♦											C
Reynolds Metals Company Study Area, (RMC)	NY	1993	Remedial		♦																		PD
Robintech, Inc./National Pipe Company	NY	1997	Remedial										♦										PD
Sarney Farm	NY	1990	Remedial										♦										C
Sealand Restoration, Inc.	NY	1990	Remedial		♦																		C
Seneca Army Depot Activity (SEDA) - Ash Landfill OU	NY	NA	Removal											♦									C
Seneca Army Depot Activity (SEDA) Open Burning Grounds OU2	NY	1999	Remedial									♦											O
Shore Realty (Formerly Applied Environmental Services) - OU 1	NY	1991	Remedial																♦				O
Signo Trading/Mt. Vernon	NY	1987	Removal	♦																			C
Sinclair Refinery - OU 2	NY	1991	Remedial																♦				O
SMS Instrument	NY	1989	Remedial																♦				C
SMS Instruments (Deer Park)	NY	1989	Remedial																♦				C
Solvent Savers	NY	1990	Remedial																♦				O
Stanton Cleaners Area Groundwater Contamination OU1	NY	1999	Remedial																♦				O
Vestal Water Supply	NY	1990	Remedial																♦				O
Wide Beach Development	NY	1985	Remedial	♦																			C
Wide Beach Development Site Thermal Desorption	NY	1985	Remedial												♦								C
York Oil Co. - OU 02	NY	1998	Remedial									♦											BI
York Oil Co. - OU 1	NY	1988	Remedial									♦											O

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Source Control Treatment Technology Summary Matrix (continued)

Site Name	State	FY	Action	Technology Type																Status	
				Ex Situ								In Situ									
York Oil Co. - OU 1	NY	1988	Removal		♦																C
GE Wiring Devices	PR	1988	Remedial		♦																PD
Janssen Inc.	PR	1993	Remedial																♦		O
Upjohn Manufacturing Co.	PR	1988	Remedial																♦		C
Vega Alta Public Supply Wells - OU 2, PRIDCO Industrial Park	PR	1997	Remedial																♦		PD
Tutu Well Field - Dept Of Education	VI	1996	Remedial															♦			PD
Tutu Well Field - Esso	VI	1996	Remedial															♦			O
Tutu Well Field - O' Henry	VI	1996	Remedial															♦			PD
Tutu Well Field - Texaco	VI	1996	Remedial															♦			O

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REGION 3

Source Control Treatment Technology Summary Matrix

	Source Control																							
	Ex Situ									In Situ														
	Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	Vitrification

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS	
Delaware Sand & Gravel Landfill	DE	1993	Remedial							♦														O	
Delaware Sand & Gravel Landfill - OU 4 And OU 5	DE	1993	Remedial																						O
Dover AFB - Lindane Source Area Within Area 6	DE	1995	Remedial		♦																				C
Dover AFB - OU 14	DE	1998	Remedial														♦								C
Dover AFB - Target Area 3 Of Area 6	DE	1995	Remedial															♦							D/BI
Dover Gas Light Co.	DE	1994	Remedial		♦																				C
Dover Gas Light Co. - OU 01	DE	1998	Remedial																					♦	PD/D
Dover Gas Light Co. - OU 01	DE	1998	Remedial		♦																				PD/D
Halby Chemical Co. - OU 1, Process Plant Area	DE	1991	Remedial															♦							C
NCR Corporation	DE	1991	Remedial																				♦		O
Standard Chlorine Of Delaware, Inc.	DE	1995	Remedial	♦																					PD/D
Wildcat Landfill - OU 1, Landfill Proper And Adjacent Areas	DE	1988	Remedial		♦																				C
Aberdeen Proving Ground (Edgewood Area) J-Field Soil OU	MD	1996	Remedial																♦						O
Eastern Maryland Wood Treating - Creosote Contaminated Soil OU	MD	1994	Removal	♦																					C
Patuxent River Naval Air Station OU 1 Soils, Pesticide Shop Site 17	MD	1999	Remedial		♦																				O
Southern Maryland Wood Treating (Amendment)	MD	1995	Remedial													♦									O
Avco Lycoming	PA	1997	Remedial																				♦		PD/D
Bendix Flight Systems Division	PA	1988	Remedial					♦																	C
Boarhead Farm	PA	1999	Remedial					♦																	D/BI
Boarhead Farm	PA	1999	Remedial																				♦		D/BI
Brodhead Creek - OU 1	PA	1991	Remedial																					♦	C
Bruin Lagoon	PA	1982	Remedial													♦									C
Burgess Brothers Landfill - OU 01	PA	1998	Remedial																				♦		D/BI
C&D Recycling	PA	1992	Remedial																				♦		C

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REGION 3

Source Control Treatment Technology Summary Matrix (continued)

Site Name	State	FY	Action	Technology Type																				Status		
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery
Craig Farm Drum	PA	1989	Remedial									♦														C
Douglassville Disposal	PA	1989	Remedial									♦														PD/D
Drake Chemical - Phase III, OU 3	PA	1988	Remedial			♦																				C
Eastern Diversified Metals	PA	1991	Remedial									♦														PD/D
Eastern Diversified Metals	PA	1991	Remedial		♦																					O
Hebelka Auto Salvage Yard	PA	1989	Remedial									♦														C
Hunterstown Road	PA	1993	Remedial									♦														PD/D
Jacks Creek/Sitkin Smelting And Refining	PA	1997	Remedial																		♦					PD/D
Letterkenny Army Depot (SE Area) - Former Solvent Disposal Lagoon/Earthen	PA	1991	Remedial									♦														C
Letterkenny Army Depot (SE Area) - OU 1, K-Area	PA	1991	Remedial										♦													C
Lord-Shope Landfill	PA	1990	Remedial																			♦				O
M.W. Manufacturing	PA	1998	Remedial									♦														PD/D
MW Manufacuring - Carbon Waste Pile	PA	1989	Remedial		♦																					C
MW Manufacturing - OU 05	PA	1998	Remedial										♦													PD/D
Paoli Rail Yard	PA	1992	Remedial									♦														PD/D
Publicker Industries, Inc. - OU 3	PA	1996	Remedial		♦																					C
Raymark	PA	1992	Remedial																		♦					C
Revere Chemical Co. - OU 1	PA	1994	Remedial									♦														C
Saegertown Industrial Area	PA	1993	Remedial																			♦				PD/D
Saegertown Industrial Area - Former GATX Property	PA	1995	Remedial		♦																					C
Tonolli Corp.	PA	1999	Remedial	♦																						PD/D
Tonolli Corp.	PA	1992	Remedial									♦														C
Tysons Dump	PA	1988	Remedial																		♦					C
Westline	PA	1986	Remedial		♦																					C
Whitmoyer Laboratories - OU 04 and OU 5	PA	1998	Remedial									♦														C

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REGION 3

Source Control Treatment Technology Summary Matrix (continued)

SITE NAME	STATE	FY	ACTION	Source Control																				STATUS			
				Ex Situ										In Situ													
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	Vitrification
Whitmoyer Laboratories - OU 1	PA	1989	Remedial		♦																					C	
Whitmoyer Laboratories - OU 2 (Bldg Structures)	PA	1991	Remedial										♦													C	
Whitmoyer Laboratories - OU 2 (Bldg Structures, Vault OU 4 UVW, And Lagoon Sludges OU 5)	PA	1995	Remedial		♦																					C	
Whitmoyer Laboratories - OU 3	PA	1991	Remedial									♦														PD/D	
Whitmoyer Laboratories - OU 3	PA	1991	Remedial											♦												PD/D	
William Dick Lagoons - OU 3	PA	1993	Remedial											♦												PD/D	
Abex Corporation OU 1 - Inner Focus Area	VA	1992	Remedial									♦														O	
Arrowhead Associates/Scovillcorp. - OU 1	VA	1991	Remedial																					♦		PD/D	
Atlantic Wood Industry - OU 1	VA	1995	Remedial	♦																						PD/D	
Avtex Fibers	VA	1990	Removal															♦								C	
C&R Battery Co., Inc.	VA	1990	Remedial										♦													C	
Defense General Supply Center (DLA) - OU 5	VA	1992	Remedial																					♦		C	
Dixie Cavern County Landfill	VA	1991	Remedial		♦																					C	
First Piedmont Rock Quarry (Route 719)	VA	1991	Remedial									♦														O	
Greenwood Chemical Co. - OU 1	VA	1990	Remedial		♦																					C	
H & H Burn Pit	VA	1999	Remedial															♦								O	
Naval Surface Warfare Center, Dahlgren, Site 12 - Chemical Burn Area	VA	1997	Remedial																					♦		O	
Naval Surface Warfare Center, Site 17	VA	1998	Remedial																	♦						PD/D	
Naval Weapons Station - Yorktown - OU 03	VA	1998	Remedial	♦																						O	
Naval Weapons Station OU2	VA	1999	Remedial	♦																						O	
Naval Weapons Station -Yorktown OU 13	VA	1999	Remedial	♦																						O	
Rhinehart Tire Fire Dump	VA	1999	Remedial		♦																					O	
Rhinehart Tire Fire Dump	VA	1992	Remedial											♦												C	
Saunders Supply Co. - Amendment	VA	1996	Remedial			♦																				C	
Fike Chemical, Inc. - OU 1	WV	1988	Removal			♦																				C	

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REGION 3

Source Control Treatment Technology Summary Matrix (continued)

	Source Control																							
	Ex Situ									In Situ														
	Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	Vitrification

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																		STATUS			
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization
Flie Chemical, Inc. - OU 3 - Drum Removal	WV	1992	Remedial		♦																				C
Ordnance Works Disposal Areas OU 1	WV	1999	Remedial												♦										PD/D
West Virginia Ordnance (USArmy)	WV	1987	Remedial						♦																C

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REGION 4

Source Control Treatment Technology Summary Matrix

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS		
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery
Alabama Army Ammunition Plant, Area A, Study Area 12 And D - OU 3	AL	1994	Remedial			♦																				C
Alabama Army Ammunition Plant, Area B, Stockpile Soil - OU 1	AL	1992	Remedial			♦																				C
Alabama Army Ammunition Plant, Area B, Study Area 6, 7, 10, 21 - OU 2	AL	1995	Remedial			♦																				C
Alabama Army Ammunition Plant, Area B, Study Areas 5, 10, 16, 19, OU 6	AL	1992	Remedial											♦												O
Alabama Army Ammunition Plant, Area B, Study Areas 5, 10, 16, 19, OU 6	AL	1997	Remedial			♦																				C
Alabama Army Ammunition Plant, OU 5	AL	1997	Remedial			♦																				C
Alabama Army Ammunition Plant, OU 5	AL	1997	Remedial													♦										C
Ciba Geigy (Mcintosh Plant) - OU 2	AL	1991	Remedial			♦																				C
Ciba Geigy (Mcintosh Plant) - OU 4	AL	1992	Remedial			♦																				C
Interstate Lead Co.	AL	1991	Remedial											♦												D/BI
Mowbray Engineering	AL	1986	Remedial																					♦		C
Stauffer Chemical (Cold Creek Plant) - OU2	AL	1995	Remedial	♦																						O
Stauffer Chemical LeMoyne Plant OU 2	AL	1999	Remedial																					♦		PD/D
T.H. Agriculture & Nutrition (Montgomery - OU 02)	AL	1998	Remedial	♦																						PD/D
Walker Springs Wood Treater	AL	NA	Removal	♦																						C
62nd Street Dump	FL	1990	Remedial																					♦		C
Agro Chemical	FL	1992	Remedial													♦										C
Airco Plating Company, OU 1	FL	1994	Remedial																					♦		O
Brown Wood Preserving	FL	1988	Remedial	♦																						C
Cabot/Koppers - Koppers OU	FL	1990	Remedial													♦										PD/D
Cabot/Koppers - Koppers OU	FL	1990	Remedial	♦																						PD/D
Cabot/Koppers - Koppers OU	FL	1990	Remedial														♦									PD/D

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REGION 4

Source Control Treatment Technology Summary Matrix (continued)

Site Name	State	FY	Action	Technology Type																Status								
				Ex Situ	In Situ	Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery
Cabot/Koppers - Koppers OU	FL	1990	Remedial									♦															PD/D	
Cecil Field Naval Air Station - OU 2, Site 17	FL	1994	Remedial													♦											C	
Cecil Field Naval Air Station - OU7, Site 16, SVE	FL	1999	Remedial																								O	
Coleman-Evans Wood Preserving - Amendment	FL	1997	Remedial													♦											D/BI	
Davie Landfill	FL	1985	Remedial													♦											C	
Dubose Oil Products Co.	FL	1990	Remedial	♦																							C	
Florida Steel Corp. - OU 2	FL	1994	Remedial													♦											C	
Helena Chemical Company (Tampa Plant)	FL	1996	Remedial															♦									PD/D	
Hollingsworth Solderless	FL	1986	Remedial																								C	
Homestead Air Force Base - OU 02	FL	1998	Remedial													♦											PD/D	
Homestead Air Force Base OU 28	FL	1999	Remedial													♦											PD/D	
Jacksonville Naval Air Station - OU 2 PSC 42	FL	1995	Remedial															♦									C	
Jacksonville Naval Air Station - OU 2 PSCs 2,41, and 43	FL	1994	Remedial													♦											C	
Jacksonville Naval Air Station - PSC 2	FL	1994	Remedial													♦											C	
Kassauf-Kimerling Battery - Wetlands Soils	FL	1990	Remedial													♦											C	
Kassauf-Kimerling Battery Disposal - OU 1 (Landfill Wastes)	FL	1989	Remedial													♦											C	
Peak Oil/Bay Drum - OU 1	FL	1993	Remedial																								♦	PD/D
Peak Oil/Bay Drum - OU 1	FL	1993	Remedial																									PD/D
Peak Oil/Bay Drum - OU 1	FL	1993	Remedial															♦										PD/D
Peak Oil/Bay Drum - OU 3	FL	1993	Remedial																									PD/D
Pepper Steel & Alloys, Inc.	FL	1986	Remedial																									C
Sapp Battery Salvage	FL	1986	Remedial													♦												O
Schuylkill Metal	FL	1990	Remedial													♦												C
Southern Solvents OU 1	FL	1999	Remedial															♦										PD/D
Stauffer Chemical Co. (Tarpon Springs) - OU 01	FL	1998	Remedial																									PD/D
Stauffer Chemical Company	FL	1996	Remedial	♦																								D/BI

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REGION 4

Source Control Treatment Technology Summary Matrix (continued)

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS		
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery
Whitehouse Oil Pits (Amendment)	FL	1992	Remedial																					♦		PD/D
Yellow Water Road Dump	FL	1990	Remedial													♦										C
Zellwood Soil Contamination - OU 1 (Amendment)	FL	1990	Remedial												♦											C
Basket Creek Surface Impoundment	GA	1991	Removal											♦												C
Cedartown Industries, Inc.	GA	1993	Remedial												♦											C
Diamond Shamrock Corp. - Hinkel Corporation	GA	NA	Removal	♦																						C
Diamond Shamrock Corp. - Liquid Wastes	GA	1994	Remedial		♦																					C
General Refining	GA	1985	Removal													♦										C
Hercules 009 Landfill - Ex situ S/S	GA	1993	Remedial												♦											C
Hercules 009 Landfill - In situ S/S	GA	1993	Remedial																						♦	C
Mathis Brothers Landfill - South Marble Top Road	GA	1996	Remedial			♦																				C
Robins Air Force Base - OU 1, Landfill And Sludge Lagoon	GA	1991	Remedial																					♦		C
Robins Air Force Base - Sludge Lagoon	GA	1991	Remedial													♦										C
T.H. Agriculture & Nutrition Company Site	GA	1992	Removal														♦									C
Winder-Barrow Speedway Drum Site	GA	1994	Removal																					♦		C
Woolfolk Chemical Works, Inc. - OU 03	GA	1998	Remedial													♦										PD/D
DOE Paducah Gaseous Diffusion Plant	KY	1998	Remedial																		♦					D/BI
Howe Valley Landfill	KY	1990	Remedial						♦																	C
Maxey Flats Nuclear Disposal	KY	1991	Remedial														♦									O
Smith'S Farm - OU 1 (Amendment)	KY	1991	Remedial	♦																						C
Smith'S Farm - OU 1 (Amendment)	KY	1991	Remedial															♦								C
Flowood Site	MS	1988	Remedial																						♦	C
Newsom Brothers/Old Reichold Chemicals	MS	1989	Remedial			♦																				C
Southeastern Wood Preserving	MS	1990	Removal														♦									C
Southeastern Wood Preserving	MS	1990	Removal	♦																						C
ABC One Hour Cleaners OU2	NC	1994	Remedial																					♦		D/BI

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REGION 4

Source Control Treatment Technology Summary Matrix (continued)

	Source Control																							
	Ex Situ									In Situ														
	Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	Vitrification

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS
Aberdeen Pesticide Dumps (Amendment)	NC	1991	Remedial												◆									C
Aberdeen Pesticide Dumps, OU 1 & OU 4 - Amendment	NC	1991	Remedial												◆									C
Battery Tech Duracell Lexington OU 1	NC	1999	Remedial															◆						PD/D
Battery Tech Duracell Lexington OU 1	NC	1999	Remedial																				◆	PD/D
Benfield Industries	NC	1995	Remedial	◆																				O
Bypass 601 Groundwater Contamination - Amendment	NC	1993	Remedial									◆												C
Cape Fear Wood Preserving	NC	1989	Remedial											◆										C
Carolina Transformer Co.	NC	1991	Remedial											◆										D/BI
Carolina Transformer Co.	NC	1991	Remedial											◆										D/BI
Celanese - OU 2	NC	1989	Remedial										◆											C
Celanese - OU 2	NC	1989	Remedial				◆																	C
Charles Macon Lagoon & Drum Storage - OU 1, Lagoon No. 7	NC	1991	Remedial																	◆				O
Cherry Point Marine Corps Air Station OU 2	NC	1999	Remedial																		◆			PD/D
FCX - Statesville - OU 2	NC	1995	Remedial	◆																				O
FCX - Statesville - OU 2	NC	1995	Remedial												◆									O
FCX - Statesville - OU 3	NC	1996	Remedial																		◆			PD/D
FCX - Washington	NC	1992	Removal											◆										C
Jadco-Hughes Facility	NC	1990	Remedial																◆					O
Jadco-Hughes Facility	NC	1990	Remedial																	◆				O
JFD Electronics/Channel Master	NC	1992	Remedial	◆																				PD/D
JFD Electronics/Channel Master	NC	1992	Remedial																					PD/D
Koppers (Morrisville Plant)	NC	1993	Remedial		◆																			C
North Carolina State University - Lot 86, Farm Unit #1	NC	1996	Remedial																		◆			PD/D
Potter's Septic Tank Service Pits	NC	1992	Remedial												◆									C
Sodyeco	NC	1987	Remedial			◆																		O
USMC Camp Lejeune Military Base - OU 2, Site 82	NC	1993	Remedial																◆					C

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REGION 4

Source Control Treatment Technology Summary Matrix (continued)

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS			
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	
CSX McCormick Derailment Site	SC	NA	Removal																		♦					C	
Geiger (C&M Oil) - Amendment	SC	1993	Remedial																			♦					C
Golden Strip Septic Tank Service	SC	1991	Remedial										♦														C
Helena Chemical Company Landfill - Amendment	SC	1995	Remedial		♦																						C
Hinson Chemical	SC	1989	Removal																			♦					C
Independent Nail Co.	SC	1987	Remedial									♦															C
Koppers Co., Inc. (Charleston Plant) - OU 01	SC	1998	Remedial													♦											D/BI
Medley Farm - OU 1	SC	1991	Remedial																			♦					O
Palmetto Wood Preserving	SC	1987	Remedial										♦														C
Palmetto Wood Preserving	SC	1987	Remedial	♦																							C
Sangamo/Twelve-Mile/Hartwell Pcb - OU 1	SC	1991	Remedial											♦													C
Savannah River (USDOE) - L-Area Oil And Chemical Basin And L-Area Acid/Caustic Basin	SC	1997	Remedial																			♦					D/BI
Savannah River (USDOE) - Old F-Area Seepage Basin, SRS Building Number 904-49g	SC	1997	Remedial																			♦					PD/D
Savannah River Site (USDOE) C Area Burning/Rubble Pit 131-C (U)	SC	1999	Remedial																			♦					PD/D
Savannah River Site-USDOE-OU 55,60,65,66	SC	1999	Remedial																			♦					D/BI
SCRDI Bluff Road	SC	1990	Remedial																			♦					C
Shuron Inc - OU 01	SC	1998	Remedial											♦													PD/D
Townsend Chainsaw Company, Inc.	SC	1997	Remedial														♦										D/BI
Wamchem, Inc.	SC	1988	Remedial												♦												C
Arlington Blending And Packaging Co. - OU 1	TN	1991	Remedial											♦													C
Carrier Air Conditioning	TN	1992	Remedial																			♦					O
Creotox Chemical Products	TN	1995	Removal	♦																							C
Milan Army Ammunition Plant - OU 3 & 4, Industrial Soil	TN	1996	Remedial	♦																							O

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REGION 4

Source Control Treatment Technology Summary Matrix (continued)

	Source Control																							
	Ex Situ									In Situ														
	Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	Vitrification

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																		STATUS				
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery
Oak Ridge Reservation (USDOE) - OU 14, Surface Impoundments	TN	1997	Remedial									♦														D/BI
Oak Ridge Reservation (USDOE) - OU 3, Pond Waste Management Project	TN	1991	Remedial									♦														C
Oak Ridge Reservation (USDOE) - OU 40, Burial Complex 4	TN	1996	Remedial																					♦		C
Ross Metals Inc OU 1	TN	1999	Remedial									♦														PD/D

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REGION 5

Source Control Treatment Technology Summary Matrix

	Source Control																							
	Ex Situ									In Situ														
	Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	Vitrification

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS
Acme Solvent Reclaiming, Inc.	IL	1991	Remedial								♦												C	
Acme Solvent Reclaiming, Inc., OU 3	IL	1991	Remedial									♦												C
Acme Solvent Reclaiming, Inc., OU 6	IL	1991	Remedial																					O
Cross Brothers Pail Recycling	IL	1989	Remedial		♦																			C
Cross Brothers Pail Recycling	IL	1989	Remedial																					O
Galesburg/Koppers	IL	1989	Remedial	♦																				O
Jennison Wright Corporation Inc	IL	1999	Remedial	♦																				PD/D
Jennison Wright Corporation Inc	IL	1999	Remedial																				♦	PD/D
Joliet Army Ammunition Plant Soil and Groundwater (LAP) OU	IL	1999	Remedial	♦																				O
Joliet Army Ammunition Plant Soil and Groundwater-MFG OU	IL	1999	Remedial	♦																				O
LaSalle Electrical Utilities (1988-1991)	IL	1986	Remedial			♦																		C
LaSalle Electrical Utilities (1992-1995)	IL	1988	Remedial			♦																		C
Lenz Oil Service, Inc OU1	IL	1999	Remedial									♦												PD/D
Outboard Marine Waukegan Coke Plant OU2	IL	1999	Remedial									♦												PD/D
Outboard Marine/Waukegan Harbor	IL	1989	Remedial		♦																			C
Outboard Marine/Waukegan Harbor - OU 3	IL	1989	Remedial									♦												C
Sangamo Electric Dump/Crab Orchard National Wildlife Refuge - Explosives/Munitions Manufacturing Area OU	IL	1997	Removal		♦																			PD/D
Sangamo Electric Dump/Crab Orchard National Wildlife Refuge - Metals Areas OU	IL	1990	Remedial									♦												C
Sangamo Electric Dump/Crab Orchard National Wildlife Refuge - Pcb Areas OU	IL	1990	Remedial				♦																	C
Sangamo Electric Dump/Crab Orchard National Wildlife Refuge - PCB Areas OU	IL	1990	Remedial									♦												C
Savanna Army Depot Activity - TNT Washout Lagoon Area	IL	1992	Remedial				♦																	C
Velsicol Chemical	IL	1988	Remedial									♦												C

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REGION 5

Source Control Treatment Technology Summary Matrix (continued)

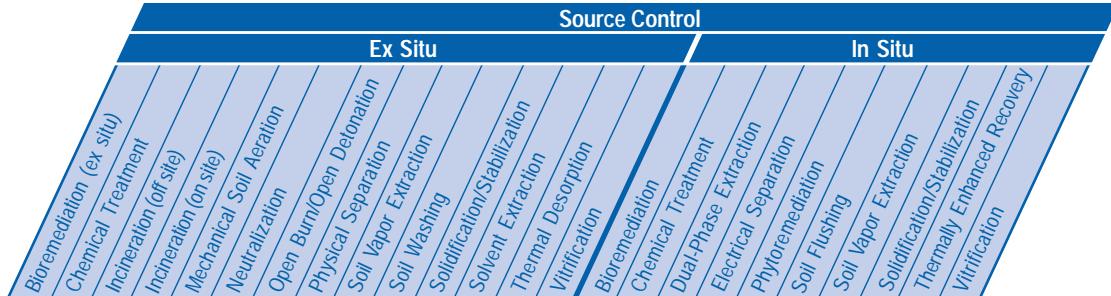
	Source Control	
	Ex Situ	In Situ
Bioremediation (ex situ)		
Chemical Treatment		
Incineration (off site)		
Incineration (on site)		
Mechanical Soil Aeration		
Neutralization		
Open Burn/Open Detonation		
Physical Separation		
Soil Vapor Extraction		
Soil Washing		
Solidification/Stabilization		
Solvent Extraction		
Thermal Desorption		
Vitrification		
Bioremediation		
Chemical Treatment		
Dual-Phase Extraction		
Phytoremediation		
Electrical Separation		
Soil Flushing		
Soil Vapor Extraction		
Solidification/Stabilization		
Thermally Enhanced Recovery		
Vitrification		

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS		
Accra-Pac	IN	1987	Removal																					♦	D/BI	
Accra-Pac	IN	NA	Removal																						O	
American Chemical Services, Inc	IN	1999	Remedial																						♦	PD/D
American Chemical Services, Inc.	IN	1992	Remedial																						♦	D/BI
American Chemical Services, Inc.	IN	1992	Remedial		♦																					PD/D
Bennetts Dump-Stone Quarry	IN	1999	Remedial		♦																					C
Continental Steel Corp. - OU 02	IN	1998	Remedial															♦								PD/D
Enviro. Conservation And Chemical (Amendment)	IN	1991	Remedial																						♦	O
Fisher-Calco	IN	1990	Remedial																						♦	O
Fort Wayne Reduction Dump	IN	1988	Remedial			♦																				C
Indiana Wood Treating	IN	1993	Removal	♦																						C
Main Street Well Field	IN	1991	Remedial																					♦		O
Midco I	IN	1989	Remedial																						♦	PD/D
Midco I - Ex situ Sediment S/S	IN	1989	Remedial															♦								PD/D
Midco I - In Situ Soil S/S	IN	1989	Remedial																						♦	PD/D
Midco II	IN	1989	Remedial																						♦	PD/D
Midco II	IN	1989	Remedial																						♦	PD/D
Neals Dump-Owen County	IN	1999	Remedial			♦																				C
Ninth Avenue Dump	IN	1989	Remedial																							C
Ninth Avenue Dump (Amendment)	IN	1994	Remedial																						♦	O
Reilly Tar & Chemical (Indianapolis Plant)	IN	1993	Remedial															♦								C
Reilly Tar & Chemical (Indianapolis Plant) - OU 2, Fire Pond at South Landfill	IN	1993	Remedial																						♦	C
Reilly Tar & Chemical (Indianapolis Plant) - OU 4, Hot Spot A	IN	1996	Remedial																						♦	O
Reilly Tar & Chemical (Indianapolis Plant) - OU 4, Hot Spot B	IN	1996	Remedial																						♦	C

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REGION 5

Source Control Treatment Technology Summary Matrix (continued)



SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																STATUS			
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytochemical	Soil Flushing
Seymour Recycling Corp.	IN	1987	Remedial																♦			O	
Seymour Recycling Corp.	IN	1987	Remedial														♦					C	
Wayne Waste Oil	IN	1990	Remedial																♦			O	
Anderson Development Co. (Amendment)	MI	1991	Remedial											♦								C	
Auto Ion Chemicals	MI	1989	Remedial									♦										C	
Bendix Site, St. Joseph	MI	1997	Remedial															♦				O	
Bofors Nobel OU1-Phyto	MI	1999	Remedial														♦					PD/D	
Carter Industrials, Inc.	MI	1991	Remedial								♦											C	
Chem Central	MI	1991	Remedial																♦			O	
Cliff/Dow Dump	MI	1989	Remedial		♦																	C	
Electrovoice - OU 1	MI	1992	Remedial																♦			O	
Forest Waste Products	MI	1986	Remedial									♦										C	
Kysor Industrial Corp.	MI	1989	Remedial																♦			O	
Liquid Disposal, Inc.	MI	1987	Remedial																♦			C	
Metamora Landfill	MI	1986	Remedial		♦																	C	
Organic Chemicals, Inc. - OU 2	MI	1997	Remedial																♦			PD/D	
Parsons Chemical (ETM Enterprise-1)	MI	1990	Removal																	♦		C	
PBM Enterprises (Van Dusen Airport Service)	MI	1988	Removal		♦																	C	
Peerless Plating	MI	1992	Remedial																♦			C	
Peerless Plating	MI	1992	Remedial									♦										C	
Petoskey Municipal Well Field - OU 01	MI	1998	Remedial								♦											D/BI	
Rasmussens Dump	MI	1991	Remedial																♦			O	
Rose Township Dump	MI	1987	Remedial			♦																C	
Rose Township Dump (Amendment)	MI	1995	Remedial																♦			O	
Spartan Chemical Co. - OU 01	MI	1998	Remedial																♦			PD/D	
Spiegelberg Landfill	MI	1986	Remedial		♦																	C	

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REGION 5

Source Control Treatment Technology Summary Matrix (continued)

	Source Control																							
	Ex Situ									In Situ														
	Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	Vitrification

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS
Springfield Township Dump	MI	1998	Remedial							♦													O	
Springfield Township Dump	MI	1990	Remedial																				♦	PD/D
Springfield Township Dump - OU 01	MI	1998	Remedial								♦													PD/D
Springfield Township Dump - OU 01	MI	1998	Remedial									♦												PD/D
Springfield Township Dump	MI	1990	Remedial							♦														PD/D
Sturgis Municipal Well Field	MI	1991	Remedial																			♦		O
Tar Lake	MI	1992	Remedial		♦																			C
Thermo-Chem, Inc. - OU 1	MI	1991	Remedial																	♦				O
Verona Well Field - OU 1 (Thomas Solvent Raymond Road)	MI	1985	Remedial																	♦				C
Verona Well Field - OU 2 (Grand Truck Railroad Paint Shop Area)	MI	1991	Remedial																♦					O
Verona Well Field - OU 2 (Thomas Solvent Annex Area)	MI	1991	Remedial																♦					O
Verona Well Field, Thomas Solvent Raymond Road OU 1	MI	1985	Removal																♦					C
Arrowhead Refinery Co. (Amendment)	MN	1994	Remedial								♦													C
Burlington Northern Railroad Tie Treating Plant	MN	1986	Remedial	♦																				C
Joslyn Manufacturing And Supply Co.	MN	1989	Remedial	♦																				C
Kummer Sanitary Landfill - Soil Phase	MN	1988	Remedial																♦					C
Long Prairie Groundwater Contamination	MN	1988	Remedial																♦					O
Macgillis And Gibbs/Bell Lumber And Pole - OU 3	MN	1994	Remedial								♦													C
Macgillis and Gibbs/Bell Lumber and Pole- OU1	MN	1999	Remedial	♦																				PD/D
Macgillis and Gibbs/Bell Lumber and Pole- OU1	MN	1999	Remedial	♦																				PD/D
Macgillis and Gibbs/Bell Lumber and Pole- OU3	MN	1999	Removal	♦																				PD/D
Macgillis and Gibbs/Bell Lumber and Pole- OU3	MN	1999	Removal	♦																				PD/D
New Brighton/Arden Hills - PCB Burn OU	MN	1989	Remedial			♦																		C
New Brighton/Arden Hills/TCAA (USArmy) - OU 07	MN	1998	Remedial													♦								PD/D
New Brighton/Arden Hills/TCAA (USArmy) - OU 07	MN	1998	Remedial																					O

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Source Control Treatment Technology Summary Matrix (continued)

SITE NAME	STATE	FY	ACTION	Source Control																STATUS							
				Ex Situ								In Situ															
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	Vitrification
Ritari Post And Pole - OU 1	MN	1994	Remedial	♦																					PD/D		
South Andover Salvage Yards - OU 2 (Amendment)	MN	1994	Remedial												♦										C		
St. Louis River/Interlake/Duluth Tar Site - Soils OU	MN	1990	Remedial												♦										C		
St. Louis River/Interlake/Duluth Tar Site - Tar Seep	MN	1990	Remedial		♦																				C		
St. Louis River/Intertake/Duluth Tar Site - Wire Mill Pond And OU J	MN	1990	Remedial																	♦					C		
University Of Minnesota	MN	1991	Remedial		♦																				C		
Waite Park Wells - OUs 1, 2, & 3	MN	1994	Remedial									♦													O		
Alesco Anaconda	OH	1989	Remedial		♦																				C		
Big D Campground	OH	1989	Remedial			♦																			C		
Fernald Environmental Management Project, Formerly Feed Materials Production Center, OU 5	OH	1996	Remedial									♦													C		
Fields Brook	OH	1997	Remedial			♦																			D/B/I		
Fields Brook - Source Control OU	OH	1997	Remedial																	♦					O		
Laskin/Poplar Oil	OH	1984	Removal		♦																				C		
Laskin/Poplar Oil (FY87)	OH	1987	Remedial			♦																			C		
Laskin/Poplar Oil (FY89)	OH	1989	Remedial			♦																			C		
Miami County Incinerator	OH	1989	Remedial																	♦					O		
Ormet Corporation	OH	1994	Remedial																	♦					O		
Ormet Corporation	OH	1994	Remedial										♦												C		
Pristine, Inc. (Amendment)	OH	1990	Remedial																	♦					O		
Pristine, Inc. (Amendment)	OH	1990	Remedial												♦										C		
Summit National Liquid Disposal Service	OH	1988	Remedial			♦																			C		
United Scrap Lead Company	OH	1997	Remedial									♦													C		
Usdoe Feed Materials Production Center - OU 4	OH	1995	Remedial													♦									PD/D		
Zanesville Well Field	OH	1991	Remedial																	♦					O		
Better Brite Chrome And Zinc Shops - Chrome Shop	WI	1996	Remedial																	♦					O		

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REGION 5

Source Control Treatment Technology Summary Matrix (continued)

Site Name	State	FY	Action	Source Control																				Status			
				Ex Situ										In Situ													
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	Vitrification
Hagen Farm - Source Control OU	WI	1990	Remedial																	♦					O		
Moss-American (Kerr-McGee Oil Co.) - OU 01	WI	1998	Remedial												♦										PD/D		
Muskego Sanitary Landfill - Interim Action OU 1	WI	1992	Remedial																		♦					PD/D	
N.W. Mauthe Site	WI	1994	Remedial										♦													C	
National Presto Industries - Lagoon No.1	WI	1997	Removal																		♦					C	
National Presto Industries - Melby Road Disposal Site	WI	1996	Remedial																		♦					D/BI	
Northern Engraving Corporation - Sludge Lagoon	WI	1987	Remedial																			♦					C
Oconomowoc Electroplating	WI	1990	Remedial									♦														C	
Onalaska Municipal Landfill	WI	1990	Remedial													♦										C	
Penta Wood Products - OU 01	WI	1998	Remedial									♦														PD/D	
Penta Wood Products - OU 01	WI	1998	Remedial													♦										PD/D	
Wausau Groundwater Contamination	WI	1989	Remedial																		♦					O	

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REGION 6

Source Control Treatment Technology Summary Matrix

	Source Control	
	Ex Situ	In Situ
Bioremediation (ex situ)		
Chemical Treatment		
Incineration (off site)		
Incineration (on site)		
Mechanical Soil Aeration		
Neutralization		
Open Burn/Open Detonation		
Physical Separation		
Soil Vapor Extraction		
Soil Washing		
Solidification/Stabilization		
Solvent Extraction		
Thermal Desorption		
Vitrification		
Bioremediation		
Chemical Treatment		
Dual-Phase Extraction		
Phytoremediation		
Electrical Separation		
Soil Flushing		
Soil Vapor Extraction		
Solidification/Stabilization		
Thermally Enhanced Recovery		
Vitrification		

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS		
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Phytoremediation	Electrical Separation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery
Arkwood Inc.	AR	1990	Remedial		♦																					C
Arkwood Inc.	AR	1990	Remedial							♦																C
Gurley Pit	AR	1987	Remedial										♦													C
Industrial Waste Control	AR	1988	Remedial																						♦	C
Jacksonville Municipal Landfill	AR	1990	Remedial									♦														C
Jacksonville Municipal Landfill	AR	1990	Remedial		♦																					C
Macmillan Ring Free Oil Company	AR	1993	Removal	♦																						C
Mid-South Wood Products	AR	1987	Remedial									♦														C
Old Midland Products	AR	1988	Remedial			♦																				C
Popile	AR	1993	Remedial	♦																						PD/D
Rogers Road Municipal Landfill	AR	1990	Remedial			♦																				C
Rogers Road Municipal Landfill	AR	1990	Remedial										♦													C
South 8th Street Landfill - OU 1	AR	1998	Remedial																					♦		D/BI
Vertac, Inc.	AR	1990	Remedial			♦																				C
Vertac, Inc. - Onsite OU 1	AR	1993	Remedial		♦																					C
Vertac, Inc. - OU 2, Tetrachlorobenzene Soils	AR	1996	Remedial		♦																					C
American Creosote Works, Inc. - Winnfield Plant (Groundwater)	LA	1993	Remedial														♦									O
American Creosote Works, Inc. (Winnfield Plant)	LA	1993	Remedial				♦																			C
Bayou Bonfouca	LA	1987	Remedial			♦																				C
Cleve Reber	LA	1987	Remedial			♦																				C
Cleve Reber	LA	1987	Remedial										♦													C
Gulf Coast Vacuum Services - OU 1	LA	1992	Remedial																				♦			O
Gulf Coast Vacuum Services - OU 1	LA	1995	Remedial	♦																						O
Madisonville Creosote Works - OU 01	LA	1998	Remedial	♦											♦											D/BI
Old Inger Oil Refinery	LA	1984	Remedial	♦																						O

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REGION 6

Source Control Treatment Technology Summary Matrix (continued)

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS		
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery
Pab Oil & Chemical Services, Inc.	LA	1993	Remedial									♦														C
Petro-Processors Of Louisiana, Inc.	LA	1989	Remedial			♦																				O
Petro-Processors Of Louisiana, Inc.	LA	1989	Remedial		♦																					C
Southern Shipbuilding Corporation	LA	1995	Remedial		♦																					C
Atchison, Topeka, & Santa Fe Clovis/Santa Fe Lake - TPH Lake Sediments	NM	1988	Remedial	♦																						C
Cal West Metals	NM	1992	Remedial									♦														C
Cimarron Mining Corp.	NM	1991	Remedial										♦													C
Prewitt Abandoned Refinery	NM	1992	Remedial	♦																						C
Prewitt Abandoned Refinery	NM	1992	Remedial																							O
Double Eagle Refinery Co.	OK	1992	Remedial									♦														C
Double Eagle Refinery Co.	OK	1992	Remedial								♦															C
Fourth Street Abandoned Refinery	OK	1992	Remedial					♦																		C
Fourth Street Abandoned Refinery	OK	1992	Remedial					♦																		C
Hardage/Criner - Amendment	OK	1990	Remedial		♦																					C
Oklahoma Refining Co.	OK	1992	Remedial						♦																	O
Oklahoma Refining Co.	OK	1992	Remedial																							O
Oklahoma Refining Co. - Hazardous Landfill	OK	1992	Remedial	♦																						O
Oklahoma Refining Co.	OK	1992	Remedial							♦																O
Oklahoma Refining Co. - Nonhazardous Landfill	OK	1992	Remedial	♦																						O
Sand Springs Petrochemical Complex	OK	1987	Remedial																							C
Sand Springs Petrochemical Complex - Glenn Wynn Facility	OK	1987	Remedial			♦																				C
Tinker AFB - Soldier Creek And Building 3001	OK	1990	Remedial															♦								O
Traband Warehouse	OK	1988	Removal													♦										C
Air Force Plant 4 - East Parking Lot Groundwater Plume	TX	1996	Remedial																						♦	PD/D

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REGION 6

Source Control Treatment Technology Summary Matrix (continued)

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS			
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	
Baldwin Waste Oil	TX	1992	Removal	♦																						C	
Bio-Ecology Systems, Inc.	TX	1984	Remedial												♦											C	
Brio Refining	TX	1988	Remedial				♦																			PD/D	
French Limited	TX	1988	Remedial															♦								C	
French Limited	TX	1988	Remedial																							♦	C
Longhorn Army Ammunition Plant - Burning Ground No. 3	TX	1995	Remedial												♦												C
MOTCO	TX	1985	Remedial					♦																			C
Motco, Inc. - OU 1	TX	1993	Remedial			♦																					C
North Cavalcade Street	TX	1988	Remedial	♦																							O
Pesses Chemical Co.	TX	1989	Remedial																							♦	C
Petro-Chemical Systems, Inc. - OU 2	TX	1991	Remedial																							♦	O
Petro-Chemical Systems, Inc. - OU 2	TX	1998	Remedial														♦									PD/D	
Petro-Chemical Systems, Inc. - OU 2	TX	1998	Remedial																							♦	O
Sheridan Disposal Services - Source Lagoon OU	TX	1989	Remedial	♦																						PD/D	
Sikes Disposal Pits	TX	1986	Remedial				♦																				C
Tex-Tin OU 1	TX	1999	Remedial		♦																						PD/D
Tex-Tin OU 1	TX	1999	Remedial														♦										PD/D
Triangle Chemical Co.	TX	1985	Remedial					♦																			C
Triangle Chemical Co.	TX	1985	Remedial					♦																			C

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REGION 7

Source Control Treatment Technology Summary Matrix

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS			
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	
Chemplex - OU 2	IA	1993	Remedial																		♦					O	
EI Dupont De Nemours & Co. Inc.	IA	1991	Remedial													♦										C	
Fairfield Coal Gasification Plant	IA	1990	Remedial		♦																					C	
Iowa Army Ammunition Plant - OU 01	IA	1998	Remedial												♦											O	
Mcgraw Edison	IA	1993	Remedial																								D/BI
Mid-America Tanning	IA	1991	Remedial																								O
Peoples Natural Gas	IA	1991	Remedial			♦																				C	
Peoples Natural Gas	IA	1991	Remedial																		♦						PD/D
Shaw Avenue Dump	IA	1991	Remedial														♦										C
Vogel Paint & Wax	IA	1989	Remedial														♦										C
Vogel Paint & Wax	IA	1989	Remedial	♦																							O
29th And Mead Ground Water Contamination, Coleman OU	KS	1992	Remedial																								D/BI
57th and North Broadway Streets OU 1 - Former Wilko Paint Facility	KS	1999	Remedial																								PD/D
Arkansas City Dump	KS	1988	Remedial						♦																		C
Pester Refinery Co.	KS	1992	Remedial																								O
Pester Refinery Co. - OU 1, Burn Pond Site	KS	1992	Remedial															♦									O
Crown Plating	MO	1989	Removal	♦																							C
Ellisville Site (Amendment)	MO	1991	Remedial		♦																						C
Former Weldon Spring Ordnance Works - OU 1, Soils And Pipeline	MO	1996	Remedial				♦																				C
Former Weldon Spring Ordnance Works - OU 1, Soils And Pipeline	MO	1996	Remedial															♦									D/BI
Kem-Pest Laboratories	MO	1991	Remedial			♦																					C
Lake City Army Ammunition Plant Area 18 OU	MO	1999	Remedial																	♦							D/BI
Lee Chemical	MO	1991	Remedial																								O
Minker/Stout/Romaine Creek (R&S)	MO	1988	Remedial			♦																					C

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REGION 7

Source Control Treatment Technology Summary Matrix (continued)

SITE NAME	STATE	FY	ACTION	Source Control																				STATUS			
				Ex Situ										In Situ													
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	Vitrification
Missouri Electric Works	MO	1990	Remedial											♦												D/BI	
Oronogo - Duenweg Mining Bell Site - OU 2 And 3	MO	1996	Remedial																						♦	PD/D	
Scott Lumber	MO	1987	Removal	♦																						C	
Shenandoah Stables	MO	1990	Remedial		♦																					C	
Syntex Facility	MO	1988	Remedial		♦																					C	
Times Beach Site	MO	1988	Remedial			♦																				C	
Valley Park Tce Site - Wainwright OU	MO	1996	Remedial																						♦	C	
Weldon Spring Quarry/Plant/Pits (USDOE)	MO	1993	Remedial											♦												C	
Cleburn Street Well	NE	1996	Remedial																						♦	O	
Former Nebraska Ordnance Plant - OU 1	NE	1995	Remedial			♦																				C	
Former Nebraska Ordnance Plant - OU 2	NE	1997	Remedial				♦																			C	
Hastings Groundwater Contamination - Colorado Ave, OU 9	NE	1988	Remedial																						♦	O	
Hastings Groundwater Contamination - Far-Mar Co. Subsite, OU 3	NE	1988	Remedial																						♦	O	
Hastings Groundwater Contamination - Hastings East Industrial Park Surface Soils, Former Naval Ammunition Depot	NE	1990	Remedial																						♦	C	
Hastings Groundwater Contamination - Hastings East Industrial Park Surface Soils, Former Naval Ammunition Depot	NE	1995	Remedial			♦																				C	
Hastings Groundwater Contamination - Hastings East Industrial Park Vadose Zone, Former Naval Ammunition Depot	NE	NA	Removal																						♦	O	
Hastings Groundwater Contamination - OU 17, Well No. 3, Plume 2	NE	1995	Removal																						♦	C	
Hastings Groundwater Contamination - Second Street Subsite, OU 12	NE	1995	Removal																						♦	O	
Hastings Groundwater Contamination - Well No. 3 Plume 1	NE	1989	Remedial																						♦	C	
Lindsay Manufacturing	NE	1990	Remedial																						♦	C	
Sherwood Medical Co.	NE	1995	Remedial						♦																	C	
Waverly Groundwater Contamination	NE	1990	Remedial																						♦	O	

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REGION 8

Source Control Treatment Technology Summary Matrix

	Source Control																							
	Ex Situ									In Situ														
	Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	Vitrification

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS
Broderick Wood Products - OU 1 (Impoundment Sludges)	CO	1992	Remedial								♦												C	
Broderick Wood Products - OU 2 (Groundwater)	CO	1992	Remedial																					O
Broderick Wood Products - OU 2 (Soils)	CO	1992	Remedial	♦																				O
Chemical Sales Company - OU 1	CO	1991	Remedial																					O
Denver Radium Site - OU 8	CO	1992	Remedial									♦												C
Lockheed/Martin (Denver Aerospace)	CO	1990	Remedial		♦																			C
Rocky Flats Plant (USDOE) - OU 4, Industrial Areas	CO	1992	Remedial									♦												C
Rocky Mountain Arsenal - Basin F Liquids	CO	1997	Remedial			♦																		C
Rocky Mountain Arsenal - Onpost OU, Buried M-1 Pits	CO	1996	Remedial																			♦		PD/D
Rocky Mountain Arsenal - Onpost OU, Former Basin F	CO	1996	Remedial																			♦		PD/D
Rocky Mountain Arsenal - Onpost OU, Hex Pits	CO	1996	Remedial																			♦		PD/D
Rocky Mountain Arsenal - OU 18, Motor Pool Area	CO	1990	Remedial																			♦		C
Rocky Mountain Arsenal - OU 25, Basin F Liquids	CO	1997	Remedial			♦																		C
Sand Creek Industrial - OU 1	CO	1989	Remedial																			♦		C
Sand Creek Industrial - OU 5	CO	1993	Remedial																					C
Summitville Mine - OU 0	CO	1995	Remedial				♦																	O
Summitville Mine - OU 2	CO	1995	Remedial					♦																C
Woodbury Chemical - OU 1	CO	1985	Remedial		♦																			C
Woodbury Chemical - OU2	CO	1989	Remedial			♦																		C
Anaconda Co. Smelter - Flue Dust	MT	1991	Remedial														♦							C
Anaconda Co. Smelter - OU 04	MT	1998	Remedial																			♦		PD/D
Burlington Northern (Somers Plant)	MT	1989	Remedial	♦																				O
Idaho Pole Company	MT	1996	Remedial	♦																				O
Libby Groundwater Contamination	MT	1989	Remedial	♦																				O
Montana Pole And Treating Plant	MT	1993	Remedial	♦																				O
Montana Pole And Treating Plant	MT	1993	Remedial		♦																			C

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REGION 8

Source Control Treatment Technology Summary Matrix (continued)

SITE NAME	STATE	FY	ACTION	Source Control																STATUS		
				Ex Situ								In Situ										
Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dissolved-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery
Montana Pole And Treating Plant - Area Under Interstate 15/90	MT	1993	Remedial														♦					PD/D
Silver Bow Creek/Butte Area - Rocker Timber Framing OU And Treatment Plant	MT	1996	Remedial	♦																		C
Ellsworth AFB - OU 1	SD	1995	Remedial																♦			O
Hill Air Force Base - OU 2	UT	1991	Remedial		♦																	O
Hill Air Force Base - OU 2	UT	1996	Remedial																♦			PD/D
Hill Air Force Base - OU 3	UT	1995	Remedial																♦			O
Jacobs Smelter OU 1	UT	1999	Remedial								♦											C
Ogden Defense Depot (DLA)	UT	1990	Remedial		♦																	C
Ogden Defense Depot (DLA) - OU 3	UT	1992	Remedial		♦																	D/BI
Portland Cement (Kiln Dust #2 & #3) - OU 2, Chromium Bearing Bricks And Contaminated Soils	UT	1992	Remedial							♦												C
Tooele Army Depot-North Area - OUs 5, 6 ,7, And 10	UT	1994	Remedial		♦																	C
Utah Power & Light/American Barrel	UT	1993	Remedial																♦			O
Wasatch Chemical	UT	1991	Remedial																	♦		C
Wasatch Chemical	UT	1991	Remedial	♦																		C
Mystery Bridge Road/Highway 20 - OU 2	WY	NA	Removal															♦				C

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REGION 9

Source Control Treatment Technology Summary Matrix

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS			
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	
Apache Powder Co.	AZ	1994	Remedial		♦																					PD/D	
Apache Powder Co.	AZ	1994	Remedial									♦														PD/D	
Gila River Indian Reservation	AZ	1984	Removal													♦										C	
Gila River Indian Reservation	AZ	1984	Removal													♦										C	
Hassayampa Landfill	AZ	1992	Remedial																							0	
Indian Bend Wash Area - North Area (Area 12)	AZ	1993	Remedial																	♦						0	
Indian Bend Wash Area - North Area (Area 7)	AZ	1993	Remedial																	♦						0	
Indian Bend Wash Area - North Area (Area 8)	AZ	1993	Remedial																	♦						C	
Indian Bend Wash Area - South Area (Rd 1 Of OU 7)	AZ	1991	Remedial																	♦						0	
Luke Air Force Base - OU 2/DP23	AZ	1994	Remedial	♦																						C	
Luke Air Force Base OU 1	AZ	1999	Remedial																		♦						PD/D
Middle Mountain Silvex	AZ		Removal	♦																							C
Motorola 52nd Street - OU 1	AZ	1988	Remedial																		♦						C
Navajo Toxaphene	AZ	1995	Removal	♦																							C
Phoenix-Goodyear Airport Area (North Facility)	AZ	1989	Remedial																		♦						0
Phoenix-Goodyear Airport Area (South Facility)	AZ	1989	Remedial																		♦						0
Sanders Aviation	AZ	NA	Removal													♦											C
Stanford Pesticide	AZ	1987	Removal	♦																							C
Tucson International Airport - Sites 1, 2, 3	AZ	1997	Remedial																		♦						0
Tucson International Airport Area - OU 03 - Soil West of Site 5	AZ	1997	Remedial																		♦						PD/D
Tucson International Airport Area - Site 4, 5, 6	AZ	1998	Remedial												♦												0
Williams Air Force Base - OU 2	AZ	1993	Remedial																		♦						0
Williams Air Force Base - OU 3	AZ	1996	Remedial														♦										0
Williams Air Force Base - OU 3	AZ	1993	Remedial																	♦							0
Advanced Micro Devices (Formerly Monolithic Memories) - 1165 E. Arques Ave., (OU 1) Subunit 2	CA	1991	Remedial																	♦							C

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REGION 9

Source Control Treatment Technology Summary Matrix (continued)

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS	
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization
Advanced Micro Devices Inc.	CA	1991	Remedial		♦																				C
Barstow Marine Corps Logistics Base - OU 01	CA	1998	Remedial																			♦			O
Brewster Well Field - OU 2	CA	1988	Remedial		♦																				C
Brown & Bryant	CA	NA	Removal										♦												C
Castle AFB - Discharge Area 4	CA	1995	Removal																			♦			O
Castle AFB - Discharge Area 8	CA	NA	Removal																			♦			O
Castle AFB - Fire Training Area 1 (Petroleum Hydrocarbons/TCE Areas)	CA	NA	Removal																			♦			O
Castle AFB - Fuel Spill 1	CA	NA	Removal																		♦				O
DC Metals	CA	1997	Removal																		♦				C
Del Amo Facility	CA	1997	Remedial																		♦				D/BI
El Toro Marine Corps Air Station - Hangar Area, Interim ROD	CA	1997	Remedial																		♦				O
Fairchild Semiconductor (Mt. View) - Bldg 19 (369 N. Whisman Rd)	CA	1989	Remedial																		♦				C
Fairchild Semiconductor (Mt. View) - Bldg 9 (401 National Ave.)	CA	1989	Remedial																		♦				C
Fairchild Semiconductor (Mt. View) - General Instrument Corp./Siltec Corp (405 National Ave.)	CA	1989	Remedial																		♦				C
Fairchild Semiconductor (Mt. View) - Siemens/Sobrato (455 & 487 Middlefield Rd)	CA	1993	Remedial																		♦				O
Fairchild Semiconductor (South San Jose)	CA	1989	Remedial																		♦				C
Fort Ord - Fort Ord Soil Treatment Area (FOSTA), OU 4	CA	1994	Remedial	♦																					C
George Air Force base OU 3 FT19a	CA	1999	Remedial														♦								O
George Air Force Base Site FT 19c	CA	1999	Remedial																		♦				O
Goerge Air Force Base OU 3 OT51	CA	1999	Remedial														♦								O
Hewlett-Packard - 620-640 Page Mill Road	CA	1995	Remedial																		♦				O
IBM (San Jose)	CA	1989	Remedial																		♦				O

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REGION 9

Source Control Treatment Technology Summary Matrix (continued)

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS	
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization
Intersil/Siemens - Intersil OU	CA	1990	Remedial																		♦				C
Intersil/Siemens - Siemins OU	CA	1990	Remedial																		♦				O
J.H. Baxter	CA	1998	Remedial														♦								D/BI
J.H. Baxter	CA	1998	Remedial													♦									D/BI
J.H. Baxter - Area B	CA	1998	Remedial													♦									O
Jasco Chemical Co.	CA	1992	Remedial	♦																					C
Lawrence Livermore National Laboratory	CA	1992	Remedial																		♦				O
Lawrence Livermore National Laboratory - Site 300, OU Building 834	CA	1995	Remedial																		♦				O
Lawrence Livermore National Laboratory - USDOE, OU 1	CA	1997	Remedial																		♦				O
Lorentz Barrel And Drum - OU 1	CA	1993	Remedial																		♦				O
March AFB - OU 1, Area 5, Sites 31a And 31b	CA	1996	Remedial																		♦				O
March AFB - OU 1, Site 18 - Jet Engine Test Cell	CA	1996	Removal							♦															O
March AFB - OU 1, Site 34 - UST Site	CA	1996	Removal														♦								C
March AFB - OU 1, Site 43 - Caltrans, Old Gas Station-USTs at Camp Hahn Site	CA	NA	Removal													♦									O
March AFB - OU 2, Site 36	CA	NA	Removal																		♦				O
March AFB - OU 2, Site 39 - Old Gasoline Station	CA	NA	Removal													♦									O
March AFB - OU 3, Site 33 - Panero Site	CA	NA	Removal																		♦				O
Mather AFB - Soil And Groundwater OU, Mather Soils Biofarm	CA	1996	Remedial	♦																					O
Mather AFB - Soil And Groundwater OU, Site 57	CA	1996	Remedial																		♦				O
Mather Air Force Base - OU 04	CA	1998	Remedial	♦																					O
Mather Air Force Base - OU 04	CA	1998	Remedial																		♦				PD/D
Mather Air Force Base - OU 04 (86&87)	CA	1998	Remedial													♦									C
Mather Air Force Base - OU 04 (Site 18,23 & 59)	CA	1998	Remedial														♦								PD/D
McClellan Air Force Base - Site S, OU D	CA	NA	Removal																	♦					O

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REGION 9

Source Control Treatment Technology Summary Matrix (continued)

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																STATUS					
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization
Modesto Groundwater Contamination	CA	1997	Remedial																♦					D/BI	
National Semiconductor Corp. - OU 1, Subunit 1	CA	1991	Remedial																♦					O	
Nelco Oil Refining - II	CA	1993	Removal	♦																				C	
Norton Air Force Base - CBA OU	CA	1994	Remedial																♦					C	
Pacific Coast Pipelines	CA	1992	Remedial																♦					O	
Phillips [Formerly Signetics (Amd 901) (TRW)]	CA	1991	Remedial																♦					O	
Purity Oil Sales, Inc. - OU 2	CA	1992	Remedial																♦					D/BI	
Rattlesnake Creek	CA	1993	Removal	♦																				C	
Rattlesnake Creek	CA	1993	Removal														♦							C	
Rattlesnake Creek	CA	1993	Removal															♦						C	
Raytheon, Mountain View (350 Ellis Street/ 415 Middlefield Rd)	CA	1989	Remedial																♦					O	
Rhone-Poulenc/Zoecon - Ex Situ S/S	CA	1992	Remedial									♦												C	
Rhone-Poulenc/Zoecon - In Situ S/S	CA	1992	Remedial																	♦					C
Roseville Drums	CA	1988	Removal	♦																				C	
Sacramento Army Depot	CA	1993	Remedial								♦													C	
Sacramento Army Depot - Burn Pits OU	CA	1993	Remedial																♦					C	
Sacramento Army Depot - OU 3, Tank 2	CA	1992	Remedial																♦					C	
Selma Pressure Treating	CA	1988	Remedial								♦													O	
Sharpe Army Depot - Defense Distribution Region West (DDRW)-Sharpe Site - OU 2	CA	1996	Remedial																♦					O	
Southern California Edison, Visalia Pole Yard	CA	1994	Remedial																	♦					O
Spectra-Physics, Inc. - OU 1, System No. 1	CA	1991	Remedial																♦					C	
Spectra-Physics, Inc. - OU 1, System No. 2	CA	1991	Remedial															♦						C	
Tracy Defense Depot (USArmy) - OU 01	CA	1998	Remedial													♦								PD/D	
Tracy Defense Depot (USArmy) - OU 01	CA	1998	Remedial															♦						PD/D	
Walkins-Johnson	CA	1990	Remedial																♦					O	

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REGION 9

Source Control Treatment Technology Summary Matrix (continued)

	Source Control																							
	Ex Situ									In Situ														
	Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	Vitrification

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																		STATUS			
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization
Westinghouse Electric (Sunnyvale Plant)	CA	1992	Remedial		♦																				C
Pearl Harbor Naval Complex - Area Laundry Site	HI	NA	Removal																	♦					O
Pearl Harbor Naval Complex - Site 22	HI	NA	Removal												♦										C
Poly-Carb	NV	1987	Removal								♦														C
Poly-Carb	NV	1987	Removal	♦																					C

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REGION 10

Source Control Treatment Technology Summary Matrix

	Source Control																							
	Ex Situ									In Situ														
	Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	Vitrification

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS
Arctic Surplus	AK	1995	Remedial								♦												PD/D	
Arctic Surplus	AK	1995	Remedial									♦											PD/D	
Eielson Air Force Base - OU 1 (Power Plant)	AK	1994	Remedial											♦									0	
Eielson Air Force Base - OU 1 (Refueling Loop)	AK	1992	Remedial											♦									0	
Eielson Air Force Base - OU 2 (Fuel Area)	AK	1994	Remedial											♦									0	
Eielson Air Force Base - OU 3 (Refueling Loop Usts)	AK	1994	Remedial											♦									0	
Elmendorf AFB - OU 2	AK	1995	Remedial											♦									C	
Elmendorf AFB - OU 4	AK	1995	Remedial											♦									0	
Elmendorf AFB - OU 5	AK	1995	Remedial	♦																			0	
Elmendorf AFB - OU 6 And Source Area SS19	AK	1997	Remedial																			♦	C	
Elmendorf AFB - OU 6 And Source Area SS19	AK	1997	Remedial											♦									C	
Fort Richardson - OU B	AK	1997	Remedial																			♦	0	
Fort Richardson - OU B	AK	1997	Remedial											♦									C	
Fort Wainwright - OU 2 - Building 1168 Leach Well	AK	1997	Remedial																		♦		0	
Fort Wainwright - OU 2 - DRMO Yard	AK	1997	Remedial																		♦		0	
Fort Wainwright - OU 3	AK	1996	Remedial																		♦		0	
Fort Wainwright - OU 4	AK	1996	Remedial																		♦		0	
Fort Wainwright OU 5 WQFS1	AK	1999	Remedial																		♦		0	
Fort Wainwright OU 5 WQFS2	AK	1999	Remedial																		♦		0	
Fort Wainwright OU 5 WQFS3	AK	1999	Remedial																		♦		PD/D	
Standard Steel And Metal Salvage Yard, (USDOT)	AK	1996	Remedial											♦									C	
Bunker Hill Mining And Metallurgical Complex	ID	1992	Remedial											♦									C	
Idaho National Engineering Lab (USDOE) - OU 21	ID	1998	Remedial																		♦		0	
Idaho National Engineering Laboratory - Pit 9, OU 7-10	ID	1993	Remedial												♦								PD/D	
Idaho National Engineering Laboratory - Pit 9, OU 7-10	ID	1993	Remedial																				PD/D	
Idaho National Engineering Laboratory - Power Burst Facility, OU 13	ID	1995	Remedial											♦									C	

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NA - Information on the date of the action is not currently available.

REGION 10

Source Control Treatment Technology Summary Matrix (continued)

SITE NAME	STATE	FY	ACTION	TECHNOLOGY TYPE																				STATUS		
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery
Idaho National Engineering Laboratory - WAG 7, OU 7 - 8	ID	1995	Remedial																				♦			O
Pacific Hide & Fur Recycling	ID	1988	Remedial																							C
Pacific Hide & Fur Recycling (Amendment)	ID	1992	Remedial		♦																					C
U.S. DOE Idaho National Engineering And Environmental Lab - OU 23	ID	1992	Remedial		♦																					C
US DOE Idaho national Engineering Laboratory (USDOE) OU 3-13	ID	1999	Remedial																							PD/D
East Multnomah County Groundwater Contamination - Cascade Corporation, Troutdale Gravel Aquifer	OR	1997	Remedial																					♦		O
Gould, Inc.	OR	1988	Remedial																							C
Teledyne Wah Chang	OR	1990	Remedial																							C
Umatilla Army Depot Activity	OR	1992	Remedial	♦																						C
Umatilla Chemical Depot (Lagoons) - OU 1	OR	1993	Remedial																							C
Umatilla Chemical Depot (Lagoons) - OU 3	OR	1994	Remedial																					♦		O
Umatilla Chemical Depot (Lagoons) - OU 4	OR	1994	Remedial																							C
Umatilla Chemical Depot (Lagoons) - OU 6	OR	1994	Remedial																							O
Umatilla Chemical Depot (Lagoons) - OU 7	OR	1994	Remedial						♦																	O
Umatilla Chemical Depot (Lagoons) - Soil OU	OR	1992	Remedial	♦																						C
Union Pacific Railroad Tie Treatment - Vadose Zone Soils	OR	1996	Remedial																	♦						PD/D
United Chrome Products, Inc.	OR	1986	Remedial																							O
Advance Electroplating	WA	1995	Removal																							C
Bonneville Power Administration - OU A	WA	1993	Remedial	♦																						C
Coal Creek Superfund Site	WA	1991	Remedial				♦																			C
Commencement Bay, Nearshore/Tideflats - Asarco Tacoma Smelter	WA	1991	Remedial		♦																					C
Commencement Bay, Nearshore/Tideflats - OU 3, Tacoma Tar Pits	WA	1988	Remedial																	♦						C
Commencement Bay, South Tacoma Channel - Well 12a	WA	1985	Remedial																					♦		O

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REGION 10

Source Control Treatment Technology Summary Matrix (continued)

Site Name	State	FY	Action	Source Control																Status							
				Ex Situ								In Situ															
				Bioremediation (ex situ)	Chemical Treatment	Incineration (off site)	Incineration (on site)	Mechanical Soil Aeration	Neutralization	Open Burn/Open Detonation	Physical Separation	Soil Vapor Extraction	Soil Washing	Solidification/Stabilization	Solvent Extraction	Thermal Desorption	Vitrification	Bioremediation	Chemical Treatment	Dual-Phase Extraction	Electrical Separation	Phytoremediation	Soil Flushing	Soil Vapor Extraction	Solidification/Stabilization	Thermally Enhanced Recovery	Vitrification
Commencement Bay, South Tacoma Channel (Well 12a)	WA	1985	Remedial																♦				C				
Commencement Bay, South Tacoma Field	WA	1994	Remedial		♦																		C				
Commencement Bay, South Tacoma Field	WA	1994	Remedial										♦										C				
Drexler - Ramcor	WA	1991	Removal											♦									C				
Fairchild Air Force Base - Priority 1 OUs (OU 2) Ft-1	WA	1993	Remedial													♦							O				
Fairchild Air Force Base - Priority 2 Sites - Fuel Truck Maintenance Facility, Building 1060 (PS-10)	WA	1996	Remedial		♦																		C				
Fairchild Air Force Base - Priority 2 Sites, OU 3, Sub Area PS-1	WA	1996	Remedial												♦								O				
FMC Corp. (Yakima Pit)	WA	1990	Remedial			♦																	C				
Fort Lewis Military Reservation - Landfill 4	WA	1993	Remedial																	♦			O				
Fort Lewis Military Reservation - Solvent Refined Coal Plant	WA	1993	Remedial											♦									C				
Frontier Hard Chrome, Inc.	WA	1988	Remedial										♦										PD/D				
Hanford 1100-Area	WA	1993	Remedial		♦																		C				
Hanford 200 Area	WA	1992	Removal																	♦			O				
Hanford 200 Area	WA	1992	Removal										♦										O				
Harbor Island (Lead) - Soil And Groundwater OU	WA	1993	Remedial											♦									PD/D				
Lockheed Shipyard Facility/Harbor Island - OU 3	WA	1994	Remedial										♦										C				
Naval Air Station, Whidbey Island - Ault Field, OU 5, Areas 1, 31, And 52	WA	1996	Remedial													♦							O				
Northwest Transformer - Mission Pole	WA	1991	Remedial			♦																	C				
Pacific Car And Foundry	WA	1992	Remedial										♦										C				
Pacific Car And Foundry	WA	1992	Remedial	♦																			C				
U.S. Naval Submarine Base - OU 1, Bangor Site A	WA	1992	Remedial										♦										C				
U.S. Naval Submarine Base - OU 6 Site D & OU 2 Site F	WA	1994	Remedial	♦																			O				
Wyckoff/Eagle Harbor - West Harbor OU (Amendment)	WA	1996	Remedial										♦										C				

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REGION 1

Groundwater Treatment Technology Summary Matrix

SITE NAME	STATE	FY	ACTION	Groundwater Technologies									STATUS	
				Air Stripping	Bioremediation (in situ)	Bioslurping	Bioremediation (in situ)	Biosparging	Bioremediation (in situ)	Groundwater	Chemical Treatment	Dual-Phase Extraction	In-Well Air Stripping	
Linemaster Switch Corporation	CT	1993	Remedial							♦				O
Hocomonco Pond - ESD	MA	1985	Remedial			♦								O
Wells G&H - OU 1 (Wildwood Conservation Trust)	MA	1989	Remedial	♦										O
Loring AFB - OU 11, Fuels Tank Farm (FTF)	ME	1995	Removal					♦						O
Pease Air Force Base - Site 45	NH	1995	Remedial	♦										O
Pease Air Force Base - Zone 2	NH	1995	Remedial	♦										O
Savage Municipal Water Supply - OU 1, OK Tool Source Area	NH	1997	Remedial	♦										O
Somersworth Sanitary Landfill	NH	1994	Remedial									♦		D/BI
Tibbetts Road - OU 01	NH	1998	Remedial										♦	PD/D
Peterson/Puritan Inc. - OU 1, PAC Area	RI	1993	Remedial						♦					O

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REGION 2

Groundwater Treatment Technology Summary Matrix

SITE NAME	STATE	FY	ACTION	Groundwater Technologies									STATUS	
				Air Stripping	Bioremediation (in situ)	Bioslurping	Bioremediation (in situ)	Biosparging	Bioremediation (in situ)	Groundwater	Chemical Treatment	Dual-Phase Extraction	In-Well Air Stripping	
FAA Technical Center - Area B Navy Fire Testing Facility	NJ	1996	Remedial	♦										PD/D
FAA Technical Center - OU 1, Area D - Jet Fuel Farm	NJ	1989	Remedial			♦								O
Naval Air Engineering Center - Areas A And B Groundwater	NJ	1997	Remedial							♦				O
Naval Air Engineering Station Areas I and J Groundwater OU 26	NJ	1999	Remedial			♦								O
Naval Air Engineering Station, Site 28 - Soil And Groundwater OU	NJ	1997	Remedial	♦										O
Naval Weapons Station Earle (Site A) - OU 03	NJ	1998	Remedial	♦										PD/D
Woodland Route 532 Dump (Amendment)	NJ	1999	Remedial	♦										PD/D
Woodland Routes 72 Dump (Amendment)	NJ	1999	Remedial	♦										PD/D
Brookhaven National Laboratory (USDOE) - OU 4	NY	1996	Remedial	♦										O
Kentucky Avenue Wellfield - OU 3	NY	1996	Remedial	♦										PD/D
Pasley Solvents And Chemicals, Inc.	NY	1992	Remedial	♦										O
Plattsburgh AFB - Bldg. 2774, Ss-017	NY	1996	Removal	♦										O
Shore Realty (Formerly Applied Environmental Services) - Groundwater OU	NY	1991	Remedial				♦							O
Shore Realty (Formerly Applied Environmental Services) - OU 1	NY	1991	Remedial	♦										O
Sinclair Refinery - OU 2	NY	1991	Remedial	♦										O

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REGION 3

Groundwater Treatment Technology Summary Matrix

SITE NAME	STATE	FY	ACTION	Groundwater Technologies									STATUS	
				Air Stripping	Bioremediation (in situ)	Bioslurping	Bioremediation (in situ)	Biosparging	Bioremediation (in situ)	Groundwater	Chemical Treatment	Dual-Phase Extraction	In-Well Air Stripping	
Dover AFB - Target Area 2 Of Area 6	DE	1995	Remedial				♦							PD/D
NCR Corp.	DE	1991	Remedial	♦										O
Avco Lycoming	PA	1997	Remedial				♦							O
Avco Lycoming	PA	1997	Remedial	♦										PD/D
Brown's Battery Breaking Site - OU 2	PA	1992	Remedial										♦	PD/D
Burgess Brothers Landfill - OU 01	PA	1998	Remedial	♦										D/BI
Saegertown Industrial Area	PA	1993	Remedial	♦										PD/D
Tonolli Corp.	PA	1992	Remedial										♦	O
Arrowhead Associates/Scovill Corp ESD	VA	1998	Remedial										♦	PD/D
Naval Surface Warfare Center, Dahlgren, Site 12 - Chemical Burn Area	VA	1997	Remedial	♦										O

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NA - Information on the date of the action is not currently available.

REGION 4

Groundwater Treatment Technology Summary Matrix

SITE NAME	STATE	FY	ACTION	Groundwater Technologies									STATUS		
				Air Stripping	Bioremediation (in situ)	Bioslurping	Bioremediation (in situ)	Biosparging	Bioremediation (in situ)	Groundwater	Chemical Treatment	Dual-Phase Extraction	In-Well Air Stripping		
American Creosote Works OU2-Phase 1	FL	1994	Remedial								♦			O	
American Creosote Works, Inc. - OU 2 Phase 2	FL	1994	Remedial				♦							PD/D	
Cecil Field Naval Air Station - OU 08	FL	1998	Remedial	♦										O	
Cecil Field Naval Air Station - OU 7, Site 16	FL	1999	Remedial	♦										O	
Aberdeen Pesticide Dumps OU 5	NC	1999	Remedial											♦	PD/D
FCX - Statesville - OU 3	NC	1996	Remedial	♦											PD/D
USMC Camp Lejeune Military Base - OU 10, Site 35	NC	1995	Remedial									♦		O	
Calhoun Park Area - OU 01	SC	1998	Remedial											♦	PD/D
CSX McCormick Derailment Site	SC	NA	Removal				♦								O
Rochester Property	SC	1993	Remedial	♦											O
Savannah River Site (USDOE) C Area Burning/Rubble Pit 131-C (U)	SC	1999	Remedial	♦											O
Shuron Inc - OU 01	SC	1998	Remedial	♦											PD/D

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 NA - Information on the date of the action is not currently available.

REGION 5

Groundwater Treatment Technology Summary Matrix

SITE NAME	STATE	FY	ACTION	Groundwater Technologies									STATUS	
				Air Stripping	Bioremediation (in situ)	Bioslurping	Bioremediation (in situ)	Biosparging	Bioremediation (in situ)	Groundwater	Chemical Treatment	Dual-Phase Extraction	In-Well Air Stripping	
Accra-Pac	IN	NA	Removal		♦									O
Accra-Pac	IN	NA	Removal	♦										D/BI
Conrail Rail Yard - OU 2	IN	1994	Remedial	♦										PD/D
Fisher-Calco	IN	1990	Remedial		♦									O
Wayne Waste Oil	IN	1990	Remedial		♦									O
Clare Water Supply	MI	1997	Remedial							♦				O
Electrovoice - OU 1	MI	1992	Remedial	♦										O
Thermo-Chem, Inc. - OU 1	MI	1991	Remedial	♦										O
Kummer Sanitary Landfill - OU 3 (Amendment)	MN	1996	Remedial				♦							C
Wright-Patterson Air Force Base - Groundwater OU 12	OH	1999	Remedial						♦					PD/D
Zanesville Well Field	OH	1991	Remedial	♦										O

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 NA - Information on the date of the action is not currently available.

REGION 6

Groundwater Treatment Technology Summary Matrix

SITE NAME	STATE	FY	ACTION	Groundwater Technologies									STATUS	
				Air Stripping	Bioremediation (in situ)	Bioslurping	Bioremediation (in situ)	Biosparging	Bioremediation (in situ)	Groundwater	Chemical Treatment	Dual-Phase Extraction	In-Well Air Stripping	
Popile	AR	1993	Remedial			♦								PD/D
American Creosote Works, Inc. (Winnfield Plant)	LA	1993	Remedial			♦								O
Prewitt Abandoned Refinery	NM	1992	Remedial	♦										O
Tinker AFB - Soldier Creek And Building 3001	OK	1990	Remedial		♦									O
Air Force Plant 4 - Building 181	TX	1996	Remedial							♦				O
Petro-Chemical Systems, Inc. - OU 2	TX	1998	Remedial				♦							O

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REGION 7

Groundwater Treatment Technology Summary Matrix

SITE NAME	STATE	FY	ACTION	Groundwater Technologies									STATUS	
				Air Stripping	Bioremediation (in situ)	Bioslurping	Bioremediation (in situ)	Biosparging	Bioremediation (in situ)	Groundwater	Chemical Treatment	Dual-Phase Extraction	In-Well Air Stripping	
Peoples Natural Gas	IA	1991	Remedial	♦										PD/D
57th And North Broadway Streets Site - OU 01	KS	1998	Remedial									♦		PD/D
Ace Services	KS	1999	Remedial				♦							PD/D
Lake City Army Ammunition Plant (NW Lagoon) - OU 03	MO	1998	Remedial										♦	O
Hastings Groundwater Contamination - Hastings East Industrial Park Groundwater Zone, Former Naval Ammunition Depot	NE	NA	Removal	♦										O
Hastings Groundwater Contamination- Colorado Ave, OU1	NE	1991	Remedial	♦										O
Hastings Groundwater Contamination- Colorado Ave, OU1	NE	1991	Removal									♦		O

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REGION 8

Groundwater Treatment Technology Summary Matrix

SITE NAME	STATE	FY	ACTION	Groundwater Technologies									STATUS
				Air Stripping	Bioremediation (in situ) - Bioslurping	Bioremediation (in situ) - Biosparging	Bioremediation (in situ) - Groundwater	Chemical Treatment	Dual-Phase Extraction	In-Well Air Stripping	Permeable Reactive Barrier	Phytoremediation	
Chemical Sales Company - OU 1	CO	1991	Remedial	♦									0
Rocky Flats Plant (USDOE) - Buffer Zone	CO	1992	Remedial								♦		0
Sand Creek Industrial - OU 4	CO	1994	Remedial						♦				C
Burlington Northern (Somers Plant) - Groundwater	MT	1989	Remedial		♦								0
Idaho Pole Company	MT	1992	Remedial		♦								0
Libby Groundwater Contamination	MT	1989	Remedial		♦								0
Montana Pole And Treating Plant - Groundwater OU	MT	1993	Remedial		♦								0
Ellsworth AFB - OU 1	SD	1995	Remedial						♦				0
Monticello Mill Tailings (USDOE) - OU 03	UT	1998	Remedial								♦		0
F.E. Warren Air Force Base, OU2	WY	1997	Remedial								♦		0
Mystery Bridge Road/Highway 20 - OU 2	WY	NA	Removal	♦									C

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REGION 9

Groundwater Treatment Technology Summary Matrix

SITE NAME	STATE	FY	ACTION	Groundwater Technologies									STATUS	
				Air Stripping	Bioremediation (in situ)	Bioslurping	Bioremediation (in situ)	Biosparging	Bioremediation (in situ)	Groundwater	Chemical Treatment	Dual-Phase Extraction	In-Well Air Stripping	
Phoenix Goodyear Airport Area (South Facility) - Subunit A	AZ	1996	Remedial	♦										C
Barstow Marine Corps Logistics Base - OU 01	CA	1998	Remedial	♦										O
Del Norte County Pesticide Storage Area	CA	1986	Remedial	♦										C
Fairchild Semiconductor (Mt. View) - Siemens/Sobrato (455 & 487 Middlefield Road)	CA	1993	Remedial	♦										O
Koppers - Oroville Plant	CA	1999	Remedial				♦							O
Travis AFB	CA	1998	Remedial					♦						O
Travis AFB	CA	1998	Remedial							♦				O

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REGION 10

Groundwater Treatment Technology Summary Matrix

SITE NAME	STATE	FY	ACTION	Groundwater Technologies									STATUS	
				Air Stripping	Bioremediation (in situ)	Bioslurping	Bioremediation (in situ)	Biosparging	Bioremediation (in situ)	Groundwater	Chemical Treatment	Dual-Phase Extraction	In-Well Air Stripping	
Elmendorf AFB - OU 6 And Source Area Ss19, Perched Aquifer Groundwater at Sd15	AK	1997	Remedial							♦				O
Fort Richardson - OU B	AK	1997	Remedial							♦				O
Fort Richardson - OU B	AK	1997	Remedial	♦										O
Fort Wainwright - OU 2 - Building 1168 Leach Well	AK	1997	Remedial	♦										O
Fort Wainwright - OU 2 - DRMO Yard	AK	1997	Remedial	♦										O
Fort Wainwright - OU 3	AK	1996	Remedial	♦										O
Fort Wainwright - OU 4	AK	1996	Remedial	♦										O
Fort Wainwright OU 5 WQFS1	AK	1999	Remedial	♦										O
Fort Wainwright OU 5 WQFS2	AK	1999	Remedial	♦										O
Fort Wainwright OU 5 WQFS3	AK	1999	Remedial	♦										PD/D
East Multnomah County Groundwater Contamination - Cascade Corporation, Troutdale Gravel Aquifer	OR	1997	Remedial	♦										C
Fairchild Air Force Base - Priority 1 OUs (OU 2) Ft-1	WA	1993	Remedial	♦										O
Fort Lewis Military Reservation - Landfill 4	WA	1993	Remedial	♦										O
Naval Undersea Warfare Station (4 Areas) - OU 01	WA	1998	Remedial										♦	O

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