TABLES

Table 1-1

Horizontal Hydraulic Gradient
Training Area Sites T-5, Parcels 180(7),182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Horizontal Gradients					
Upgradient Well	G.W. Elevation January 2002 (ft above msl)	Down Gradient	G.W. Elevation January 2002 (ft above msl)	Distance Between Well Locations (ft)	Horizontal Hydraulic Gradient
CWM-182-MW06	845.80	CWM-156-MW02	823.99	300	0.073
CWM-511-MW01	806.51	CWM-512-MW01	803.38	120	0.026
CWM-516-MW01	820.14	CWM-513-MW01	814.50	105	0.054
CWM-516-MW02	823.99	CWM-513-MW01	814.50	240	0.040
CWM-516-MW02	823.99	CWM-513-MW02	811.00	345	0.038
HR-232QX-MW04	852.96	CWM-180-MW01	800.81	360	0.145
HR-232QX-MW04	852.96	CWM-180-MW02	805.29	420	0.114
Arithmetic Mean					0.070

Notes:
msl = mean sea level
ft = feet
GW- Groundwater
TOC - Top of casing

Table 2-1

Previous Sampling Locations and Rationale
Training Area T-5 Sites
Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Number	Sample Location	Sample Media	Sample Location Rationale
180	CWM-180-MW01	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected in the southwest corner (upgradient) of the site to determine if potential site-specific chemicals (PSSC) are present.
	CWM-180-MW02	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected in the central portion of the parcel to determine if PSSC are present.
	CWM-180-MW03	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected from the central portion of the parcel downgradient of the burn pit identified by concrete Monument "F" to determine if PSSC are present.
	CWM-180-MW04	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected north (downgradient) of the parcel boundary to determine if PSSC are present.
182	CWM-182-DEP01	Depositional soil	A depositional soil sample was collected south (upslope) of the site from the intermittent stream channel that transverses the southeast corner of the parcel to determine if PSSC are present.
	CWM-182-DEP02	Depositional soil	A depositional soil sample was collected north (downslope) of the site from an intermittent stream channel that transverses the northwest corner of the parcel to determine if PSSC are present.
	CWM-182-DEP03	Depositional soil	A depositional soil sample was collected from an intermittent stream channel located adjacent (upslope) to the northwest corner of the parcel to determine if PSSC are present.
	CWM-182-DEP04	Depositional soil	A depositional soil sample was collected west (upslope) of the site from an intermittent stream channel that transverses the northwestern portion of the parcel to determine if PSSC are present.
	CWM-182-DEP05	Depositional soil	A depositional soil sample was collected from an intermittent stream channel located in the north-central portion of the parcel to determine if PSSC are present.
	CWM-182-MW01	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected along the western boundary (upgradient) of the parcel to determine if PSSC are present.
	CWM-182-MW02	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected from the southeast corner of the parcel to determine if PSSC are present.
	CWM-182-MW03	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater were collected from the southeastern portion of the parcel to determine if PSSC are present.

Table 2-1

Previous Sampling Locations and Rationale
Training Area T-5 Sites
Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Number	Sample Location	Sample Media	Sample Location Rationale
182 (cont.)	CWM-182-MW04	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected in the east-central portion of the parcel to determine if PSSC are present.
	CWM-182-MW05	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected from the eastern portion of the parcel to determine if PSSC are present.
	CWM-182-MW06	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected in the northwest portion of the parcel to determine if PSSC are present.
	CWM-182-SW/SD01	Surface water and sediment	Surface water and sediment samples were collected from an intermittent stream located along the eastern boundary (downstream) of the site to determine if PSSC are present.
511	CWM-511-DEP01	Depositional soil	A depositional soil sample was collected near the southwestern corner (downslope) of the site from an intermittent stream channel that parallels the western boundary of the parcel to determine if PSSC are present.
	CWM-511-DEP02	Depositional soil	A depositional soil sample was collected from an intermittent stream channel that parallels the western boundary of the parcel to determine if PSSC are present.
	CWM-511-MW01	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected in the south-central portion of the parcel along the eastern boundary with Parcel 512(7) to determine if PSSC are present.
	CWM-511-MW02	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected in the north-central portion of the parcel northeast of the Fenced Yard to determine if PSSC are present.
	CWM-511-MW03	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected in the northeast portion of the parcel adjacent to the bleachers to determine the presence of PSSC.
	CWM-511-SW/SD03	Surface water and sediment	Surface water and sediment samples were collected from an intermittent stream north (downstream) of the parcel to determine if PSSC are present.
512	CWM-512-MW01	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected from the northeastern corner of the parcel to determine if PSSC are present.

Table 2-1

Previous Sampling Locations and Rationale
Training Area T-5 Sites
Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Number	Sample Location	Sample Media	Sample Location Rationale
513	CWM-513-DEP01	Depositional Soil	A depositional soil sample was collected adjacent to the northeast corner of the parcel (downslope) to determine if PSSC are present.
	CWM-513-MW01	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected east of the concrete pads in the Dog Training Area to determine if PSSC are present.
	CWM-513-MW02	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected within the northeastern corner of the parcel downgradient of the Dog Training Area to determine if PSSC are present.
514	CWM-514-MW01	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected near the southwest corner of the parcel to determine if PSSC are present.
	CWM-514-MW02	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected downgradient from a circular pit located in the central portion of the parcel to determine if PSSC are present.
	CWM-514-MW03	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected near the northwest corner of the parcel to determine if PSSC are present.
516	CWM-516-MW01	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected near the northeast corner of the parcel to determine if PSSC are present.
	CWM-516-MW02	Surface soil, subsurface soil, and groundwater	Surface soil, subsurface soil, and groundwater samples were collected in the south-central portion of the parcel adjacent to the dog pens to determine if PSSC are present.

Table 2-2

Monitoring Well Construction Summary
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Well Location	Northing	Easting	Ground Elevation (ft amsl)	TOC Elevation (ft amsl)	Well Depth (ft bgs)	Screen Length (ft)	Screen Interval (ft bgs)	Well Material
CWM-180-MW01	1165918.13	668252.71	834.12	836.23	50	15	35 - 50	2" ID Sch. 40 PVC
CWM-180-MW02	1165952.89	668312.52	831.06	833.09	42	15	27 - 42	2" ID Sch. 40 PVC
CWM-180-MW03	1166007.95	668304.97	828.17	830.30	37	15	22 - 37	2" ID Sch. 40 PVC
CWM-180-MW04	1166112.68	668336.49	824.05	826.08	25	15	10 - 25	2" ID Sch. 40 PVC
CWM-182-MW01	1164799.06	668140.42	932.93	935.08	69	15	54 - 69	2" ID Sch. 40 PVC
CWM-182-MW02	1164598.62	668510.79	842.64	844.72	24	15	9 - 24	2" ID Sch. 40 PVC
CWM-182-MW03	1164747.93	668571.39	838.12	840.25	53	20	33 - 53	2" ID Sch. 40 PVC
CWM-182-MW04	1164895.94	668512.95	839.46	841.67	34	15	19 - 34	2" ID Sch. 40 PVC
CWM-182-MW05	1165124.26	668520.58	833.55	835.72	25	15	10 - 25	2" ID Sch. 40 PVC
CWM-182-MW06	1165245.83	668245.89	860.94	862.91	39	15	24 - 39	2" ID Sch. 40 PVC
CWM-511-MW01	1165923.27	668981.14	810.73	810.49	24.5	15	9.5 - 24.5	2" ID Sch. 40 PVC
CWM-511-MW02	1166059.29	669032.56	807.96	807.59	20	15	5 - 20	2" ID Sch. 40 PVC
CWM-511-MW03	1166180.93	669110.04	805.20	804.90	20	15	5 - 20	2" ID Sch. 40 PVC
CWM-512-MW01	1166041.98	668951.96	809.06	808.78	22.5	15	7.5 - 22.5	2" ID Sch. 40 PVC
CWM-513-MW01	1165569.42	668653.16	820.65	822.60	32	15	17 - 32	2" ID Sch. 40 PVC
CWM-513-MW02	1165613.88	668765.35	817.15	819.35	30	15	15 - 30	2" ID Sch. 40 PVC
CWM-514-MW01	1166055.43	667873.38	846.83	848.87	65	10	55 - 65	2" ID Sch. 40 PVC
CWM-514-MW02	1166095.19	667893.48	839.32	841.32	68.5	10	58.5 - 68.5	2" ID Sch. 40 PVC
CWM-514-MW03	1166145.07	667869.23	837.86	839.85	58	15	43 - 58	2" ID Sch. 40 PVC
CWM-516-MW01	1165476.14	668578.52	827.05	829.14	30	15	15 - 30	2" ID Sch. 40 PVC
CWM-516-MW02	1165396.04	668499.45	838.04	839.88	34	15	19 - 34	2" ID Sch. 40 PVC

Permanent wells installed using hollow-stem auger.
Horizontal coordinates referenced to the U.S. State Plane Coordinate System, Alabama East Zone, North American Datum of 1983 (NAD83).
Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).
2" ID Sch. 40 PVC - 2-inch inside diameter, Schedule 40, polyvinyl chloride.
bgs - Below ground surface.
ft - Feet
amsl - Above mean sea level.

Table 2-3

Groundwater and Surface Water Field Parameters
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Date	Media	Specific Conductivity (mS/cm)[a]	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Turbidity (NTU)	pH (SU)
CWM-180-MW01	18-Dec-01	GW	0.271	6.73	-31	14.13	6.5	6.80
CWM-180-MW02	14-Dec-01	GW	0.113	7.14	24	16.25	7.4	7.95
CWM-180-MW03	20-Dec-01	GW	0.138	7.38	10	16.57	5.1	5.97
CWM-180-MW04	11-Dec-01	GW	0.063	10.56[b]	416	14.75	1.3	5.89
CWM-182-MW01	28-Jan-02	GW	0.037	13.30[b]	200	17.20	8.8	5.41
CWM-182-MW02	19-Dec-01	GW	0.079	3.41	87	16.08	9.0	5.75
CWM-182-MW03	30-Jan-02	GW	0.127	11.91[b]	-24	18.40	320	5.74
CWM-182-MW04	19-Dec-01	GW	0.306	7.79	190	16.25	2.0	6.79
CWM-182-MW05	24-Jan-02	GW	0.384	2.3	220	16.98	4.1	7.46
CWM-182-MW06	25-Jan-02	GW	0.353	9.91[b]	101	14.90	7.2	6.54
CWM-182-SW/SD01	20-Feb-02	SW	0.044	9.68[b]	135	11.90	14.0	5.43
CWM-511-MW01	3-Dec-01	GW	0.339	10.48[b]	-98	22.86	9.7	6.59
CWM-511-MW02	30-Nov-01	GW	0.234	9.28[b]	280	19.29	0.4	6.54
CWM-511-MW03	29-Nov-01	GW	0.278	11.57[b]	68	23.20	3.3	6.82
CWM-511-SW/SD03	18-Feb-02	SW	0.092	11.14[b]	NR	12.40	4.9	6.01
CWM-512-MW01	28-Nov-01	GW	0.339	11.64[b]	180	22.74	1.1	7.09
CWM-513-MW01	5-Dec-01	GW	0.407	7.99	376	17.80	9.7	6.97
CWM-513-MW02	6-Dec-01	GW	0.340	0.95	346	19.70	5.9	7.18
CWM-514-MW01	5-Feb-02	GW	0.597	10.28[b]	-35	8.10	9.8	5.87
CWM-514-MW02	8-Feb-02	GW	0.566	1.75	356	12.89	3.1	7.18
CWM-514-MW03	7-Feb-02	GW	0.044	2.21	517	7.39	1.1	5.29
CWM-516-MW01	11-Dec-01	GW	0.303	0.47	161	17.40	3.2	6.25
CWM-516-MW02	7-Dec-01	GW	0.242	3.04	372	19.01	3.1	6.00

[a] Specific conductivity values standardized to millisiemens per centimeter.
[b] Elevated reading due to air in sample.
°C - Degrees Celsius.
GW - Groundwater.
mg/L - Milligrams per liter.
mS/cm - Millisiemens per centimeter.
mV - Millivolts.
NR - Not recorded.
NTU - Nephelometric turbidity units.
ORP - Oxidation-reduction potential.
SU - Standard units.
SW - Surface water.

Table 2-4

Variances to the Final Site-Specific field Sampling Plan
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Variance to the SFSP	Justification for Variance	Impact to Site Investigation
The Site-Specific Field Sampling Plan proposed collection of surface water and sediment samples at CWM-182-SW/SD02, CWM-182-SW/SD03, CWM-182-SW/SD04, CWM-182-SW/SD05, and CWM-182-SW/SD06. Surface water and sediment samples were not collected from these five locations. Depositional soil samples CWM-182-DEP01, CWM-182-DEP02, CWM-182-DEP03, CWM-182-DEP04, and CWM-182-DEP05 were collected at these locations, respectively.	Surface water and sediment samples were not collected at these locations because surface water and sediment were not present in the intermittent stream at the time of sample collection. Several attempts were made to collect the samples, but all attempts were unsuccessful.	None. Depositional soil samples collected from these locations are representative samples.
The Site-Specific Field Sampling Plan proposed using a hollow-stem auger rig to install monitoring well HR-182-MW01. However, the well was installed using air-rotary drilling techniques.	Auger refusal was encountered prior to reaching the water table.	None. Use of air-rotary drilling allowed for successful installation of the monitoring well.
Proposed sample location CWM-513-SW/SD01 was eliminated and proposed sample location CWM-511-SW/SD01 was moved 140 feet north. In addition, surface water was not present during sample collection. Therefore, depositional soil samples, CWM-511-DEP01, CWM-511-DEP02, and CWM-513-DEP01, were collected at proposed surface water and sediment sample locations CWM-511-SW/SD01, CWM-511-SW/SD02, and CWM-513-SW/SD02, respectively.	Two sample locations, CWM-511-SW/SD01 and CWM-513-SW/SD02, were proposed at the same location and a third, CWM-513-SW/SD01, within 100 feet. Due to the proximity of these sample locations, CWM-513-SW/SD01 was eliminated. Proposed sample location CWM-511-SW/SD01 was moved 140 feet north and CWM-513-SW/SD02 was collected at its proposed location. Surface water and sediment samples were not collected at CWM-511-SW/SD01 and CWM-513-SW/SD02 because surface water and sediment were not present in the intermittent stream at the time of sample collection. Several attempts were made to collect the samples, but all attempts were unsuccessful.	None. Depositional soil samples collected from these locations are representative samples.

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-180						CWM-180						CWM-180					
Sample Location						CWM-180-MW01						CWM-180-MW02						CWM-180-MW03					
Sample Number						TK0001						TK0003						TK0005					
Sample Date						22-Oct-01						22-Oct-01						22-Oct-01					
Sample Depth (Feet)						0- 1						0- 1						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
METALS																							
Aluminum	mg/kg	3.99E+04	1.63E+04	7.80E+03	5.00E+01	2.07E+04	J		YES	YES	YES	1.91E+04	J		YES	YES	YES	1.90E+04	J		YES	YES	YES
Antimony	mg/kg	2.60E+00	1.99E+00	3.11E+00	3.50E+00	ND						ND						ND					
Arsenic	mg/kg	4.90E+01	1.37E+01	4.26E-01	1.00E+01	1.55E+01			YES	YES	YES	1.09E+01				YES	YES	3.83E+01			YES	YES	YES
Barium	mg/kg	2.88E+02	1.24E+02	5.47E+02	1.65E+02	9.44E+01						1.30E+02			YES			7.18E+01					
Beryllium	mg/kg	8.70E-01	8.00E-01	9.60E+00	1.10E+00	9.24E-01	B	YES	YES			1.31E+00		YES	YES		YES	ND					
Cadmium	mg/kg	2.10E-01	2.90E-01	6.25E+00	1.60E+00	ND						ND						ND					
Calcium	mg/kg	1.79E+04	1.72E+03	NA	NA	2.01E+02						5.50E+02						3.89E+02	J				
Chromium	mg/kg	1.34E+02	3.70E+01	2.32E+01	4.00E-01	1.42E+01					YES	2.02E+01					YES	4.12E+01			YES	YES	YES
Cobalt	mg/kg	7.10E+01	1.52E+01	4.68E+02	2.00E+01	6.25E+00						1.45E+01						3.00E+01			YES		YES
Copper	mg/kg	2.40E+01	1.27E+01	3.13E+02	4.00E+01	1.09E+01						1.19E+01						1.81E+01	J		YES		
Iron	mg/kg	5.63E+04	3.42E+04	2.34E+03	2.00E+02	3.83E+04	J		YES	YES	YES	2.93E+04	J			YES	YES	1.32E+05	J	YES	YES	YES	YES
Lead	mg/kg	8.30E+01	4.01E+01	4.00E+02	5.00E+01	3.93E+01						3.43E+01						3.43E+01					
Magnesium	mg/kg	9.60E+03	1.03E+03	NA	4.40E+05	8.43E+02						8.28E+02						6.41E+02	J				
Manganese	mg/kg	6.85E+03	1.58E+03	3.63E+02	1.00E+02	1.08E+03	J			YES	YES	1.11E+03	J			YES	YES	6.69E+02	J			YES	YES
Mercury	mg/kg	3.20E-01	8.00E-02	2.33E+00	1.00E-01	3.10E-02	J					ND						4.70E-02	J				
Nickel	mg/kg	2.20E+01	1.03E+01	1.54E+02	3.00E+01	1.03E+01						1.50E+01			YES			1.89E+01	J		YES		
Potassium	mg/kg	6.01E+03	8.00E+02	NA	NA	6.96E+02						5.75E+02	J					9.59E+02	J		YES		
Selenium	mg/kg	1.30E+00	4.80E-01	3.91E+01	8.10E-01	ND						6.37E-01	J		YES			1.25E+00			YES		YES
Silver	mg/kg	1.90E+00	3.60E-01	3.91E+01	2.00E+00	1.59E+00	B		YES			ND						ND					
Sodium	mg/kg	5.63E+02	6.34E+02	NA	NA	5.49E+01	B					5.82E+01	B					ND					
Vanadium	mg/kg	1.58E+02	5.88E+01	5.31E+01	2.00E+00	4.24E+01					YES	3.38E+01					YES	9.51E+01			YES	YES	YES
Zinc	mg/kg	2.09E+02	4.06E+01	2.34E+03	5.00E+01	3.08E+01	J					3.53E+01	J					8.27E+01			YES		YES
SEMIVOLATILE ORGANIC COMPOUNDS																							
Acenaphthylene	mg/kg	NA	8.91E-01	4.63E+02	6.82E+02	ND						ND						ND					
Anthracene	mg/kg	NA	9.35E-01	2.33E+03	1.00E-01	ND						ND						ND					
Benzo(a)anthracene	mg/kg	NA	1.19E+00	8.51E-01	5.21E+00	ND						ND						ND					
Benzo(a)pyrene	mg/kg	NA	1.42E+00	8.51E-02	1.00E-01	ND						ND						ND					
Benzo(b)fluoranthene	mg/kg	NA	1.66E+00	8.51E-01	5.98E+01	ND						ND						ND					
Benzo(ghi)perylene	mg/kg	NA	9.55E-01	2.32E+02	1.19E+02	ND						ND						ND					
Benzo(k)fluoranthene	mg/kg	NA	1.45E+00	8.51E+00	1.48E+02	ND						ND						ND					
Chrysene	mg/kg	NA	1.40E+00	8.61E+01	4.73E+00	ND						ND						ND					
Dibenz(a,h)anthracene	mg/kg	NA	7.20E-01	8.61E-02	1.84E+01	ND						ND						ND					
Fluoranthene	mg/kg	NA	2.03E+00	3.09E+02	1.00E-01	ND						ND						ND					
Indeno(1,2,3-cd)pyrene	mg/kg	NA	9.37E-01	8.51E-01	1.09E+02	ND						ND						ND					
Phenanthrene	mg/kg	NA	1.08E+00	2.32E+03	1.00E-01	ND						ND						ND					
Pyrene	mg/kg	NA	1.63E+00	2.33E+02	1.00E-01	ND						ND						ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-180						CWM-180						CWM-180					
Sample Location						CWM-180-MW01						CWM-180-MW02						CWM-180-MW03					
Sample Number						TK0001						TK0003						TK0005					
Sample Date						22-Oct-01						22-Oct-01						22-Oct-01					
Sample Depth (Feet)						0- 1						0- 1						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																							
2-Butanone	mg/kg	NA	NA	4.66E+03	8.96E+01	ND						1.20E-02	J					1.30E-02	J				
Acetone	mg/kg	NA	NA	7.76E+02	2.50E+00	5.80E-02	J					2.30E-01	J					2.10E-01	J				
Carbon disulfide	mg/kg	NA	NA	7.77E+02	9.00E-02	ND						ND						ND					
Chloromethane	mg/kg	NA	NA	4.85E+01	1.00E-01	ND						ND						ND					
Methylene chloride	mg/kg	NA	NA	8.41E+01	2.00E+00	ND						ND						1.80E-03	B				
Naphthalene	mg/kg	NA	NA	1.55E+02	1.00E-01	ND						ND						ND					
Toluene	mg/kg	NA	NA	1.55E+03	5.00E-02	ND						ND						ND					
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	1.00E-01	ND						ND						ND					
p-Cymene	mg/kg	NA	NA	1.55E+03	NA	ND						ND						ND					
sec-Butylbenzene	mg/kg	NA	NA	7.77E+01	NA	ND						ND						ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-180						CWM-182						CWM-182					
Sample Location						CWM-180-MW04						CWM-182-DEP01						CWM-182-DEP02					
Sample Number						TK0007						TE0015						TE0014					
Sample Date						22-Oct-01						7-Nov-01						7-Nov-01					
Sample Depth (Feet)						0- 1						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
METALS																							
Aluminum	mg/kg	3.99E+04	1.63E+04	7.80E+03	5.00E+01	2.30E+04	J		YES	YES	YES	1.37E+04				YES	YES	9.64E+03				YES	YES
Antimony	mg/kg	2.60E+00	1.99E+00	3.11E+00	3.50E+00	ND						ND						ND					
Arsenic	mg/kg	4.90E+01	1.37E+01	4.26E-01	1.00E+01	1.61E+01			YES	YES	YES	5.47E+00				YES		7.45E+00				YES	
Barium	mg/kg	2.88E+02	1.24E+02	5.47E+02	1.65E+02	9.42E+01						6.42E+01						6.56E+01					
Beryllium	mg/kg	8.70E-01	8.00E-01	9.60E+00	1.10E+00	1.12E+00	B	YES	YES		YES	8.79E-01	J	YES	YES			6.53E-01	J				
Cadmium	mg/kg	2.10E-01	2.90E-01	6.25E+00	1.60E+00	ND						ND						ND					
Calcium	mg/kg	1.79E+04	1.72E+03	NA	NA	5.42E+02						9.82E+01	J					2.30E+03			YES		
Chromium	mg/kg	1.34E+02	3.70E+01	2.32E+01	4.00E-01	2.47E+01				YES	YES	1.70E+01					YES	1.22E+01					YES
Cobalt	mg/kg	7.10E+01	1.52E+01	4.68E+02	2.00E+01	1.64E+01			YES			1.05E+01						5.03E+00					
Copper	mg/kg	2.40E+01	1.27E+01	3.13E+02	4.00E+01	1.20E+01						1.18E+01						8.99E+00					
Iron	mg/kg	5.63E+04	3.42E+04	2.34E+03	2.00E+02	3.34E+04	J			YES	YES	1.65E+04				YES	YES	1.66E+04				YES	YES
Lead	mg/kg	8.30E+01	4.01E+01	4.00E+02	5.00E+01	3.33E+01						1.45E+01						1.41E+01					
Magnesium	mg/kg	9.60E+03	1.03E+03	NA	4.40E+05	1.00E+03						6.10E+02						4.82E+02					
Manganese	mg/kg	6.85E+03	1.58E+03	3.63E+02	1.00E+02	1.15E+03	J			YES	YES	4.13E+02				YES	YES	4.90E+02				YES	YES
Mercury	mg/kg	3.20E-01	8.00E-02	2.33E+00	1.00E-01	ND						ND						ND					
Nickel	mg/kg	2.20E+01	1.03E+01	1.54E+02	3.00E+01	1.63E+01			YES			6.54E+00	B					6.07E+00	B				
Potassium	mg/kg	6.01E+03	8.00E+02	NA	NA	7.21E+02						7.24E+02						3.73E+02	J				
Selenium	mg/kg	1.30E+00	4.80E-01	3.91E+01	8.10E-01	ND						ND						ND					
Silver	mg/kg	1.90E+00	3.60E-01	3.91E+01	2.00E+00	1.52E+00	B		YES			ND						ND					
Sodium	mg/kg	5.63E+02	6.34E+02	NA	NA	5.32E+01	B					ND						ND					
Vanadium	mg/kg	1.58E+02	5.88E+01	5.31E+01	2.00E+00	4.42E+01					YES	2.48E+01					YES	1.99E+01					YES
Zinc	mg/kg	2.09E+02	4.06E+01	2.34E+03	5.00E+01	4.17E+01	J		YES			3.92E+01						3.02E+01					
SEMIVOLATILE ORGANIC COMPOUNDS																							
Acenaphthylene	mg/kg	NA	8.91E-01	4.63E+02	6.82E+02	ND						ND						ND					
Anthracene	mg/kg	NA	9.35E-01	2.33E+03	1.00E-01	ND						ND						ND					
Benzo(a)anthracene	mg/kg	NA	1.19E+00	8.51E-01	5.21E+00	ND						ND						ND					
Benzo(a)pyrene	mg/kg	NA	1.42E+00	8.51E-02	1.00E-01	ND						ND						ND					
Benzo(b)fluoranthene	mg/kg	NA	1.66E+00	8.51E-01	5.98E+01	ND						ND						ND					
Benzo(ghi)perylene	mg/kg	NA	9.55E-01	2.32E+02	1.19E+02	ND						ND						ND					
Benzo(k)fluoranthene	mg/kg	NA	1.45E+00	8.51E+00	1.48E+02	ND						ND						ND					
Chrysene	mg/kg	NA	1.40E+00	8.61E+01	4.73E+00	ND						ND						ND					
Dibenz(a,h)anthracene	mg/kg	NA	7.20E-01	8.61E-02	1.84E+01	ND						ND						ND					
Fluoranthene	mg/kg	NA	2.03E+00	3.09E+02	1.00E-01	ND						ND						ND					
Indeno(1,2,3-cd)pyrene	mg/kg	NA	9.37E-01	8.51E-01	1.09E+02	ND						ND						ND					
Phenanthrene	mg/kg	NA	1.08E+00	2.32E+03	1.00E-01	ND						ND						ND					
Pyrene	mg/kg	NA	1.63E+00	2.33E+02	1.00E-01	ND						ND						ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-180						CWM-182						CWM-182					
Sample Location						CWM-180-MW04						CWM-182-DEP01						CWM-182-DEP02					
Sample Number						TK0007						TE0015						TE0014					
Sample Date						22-Oct-01						7-Nov-01						7-Nov-01					
Sample Depth (Feet)						0- 1						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																							
2-Butanone	mg/kg	NA	NA	4.66E+03	8.96E+01	1.50E-02	J					2.10E-02	J					4.50E-02					
Acetone	mg/kg	NA	NA	7.76E+02	2.50E+00	3.40E-01	J					2.50E-01						1.80E-01	J				
Carbon disulfide	mg/kg	NA	NA	7.77E+02	9.00E-02	ND						ND						ND					
Chloromethane	mg/kg	NA	NA	4.85E+01	1.00E-01	ND						ND						ND					
Methylene chloride	mg/kg	NA	NA	8.41E+01	2.00E+00	1.40E-03	B					ND						ND					
Naphthalene	mg/kg	NA	NA	1.55E+02	1.00E-01	ND						ND						ND					
Toluene	mg/kg	NA	NA	1.55E+03	5.00E-02	ND						ND						2.20E-03	J				
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	1.00E-01	ND						ND						ND					
p-Cymene	mg/kg	NA	NA	1.55E+03	NA	ND						ND						8.80E-03	J				
sec-Butylbenzene	mg/kg	NA	NA	7.77E+01	NA	ND						ND						ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-182						CWM-182						CWM-182					
Sample Location						CWM-182-DEP03						CWM-182-DEP04						CWM-182-DEP05					
Sample Number						TE0016						TE0017						TE0018					
Sample Date						7-Nov-01						7-Nov-01						7-Nov-01					
Sample Depth (Feet)						0- .5						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
METALS																							
Aluminum	mg/kg	3.99E+04	1.63E+04	7.80E+03	5.00E+01	1.37E+04				YES	YES	1.59E+04				YES	YES	1.31E+04				YES	YES
Antimony	mg/kg	2.60E+00	1.99E+00	3.11E+00	3.50E+00	ND						ND						ND					
Arsenic	mg/kg	4.90E+01	1.37E+01	4.26E-01	1.00E+01	8.68E+00				YES		1.11E+01				YES	YES	8.70E+00				YES	
Barium	mg/kg	2.88E+02	1.24E+02	5.47E+02	1.65E+02	1.57E+02			YES			2.04E+02			YES		YES	6.62E+01					
Beryllium	mg/kg	8.70E-01	8.00E-01	9.60E+00	1.10E+00	1.58E+00		YES	YES		YES	1.56E+00		YES	YES		YES	ND					
Cadmium	mg/kg	2.10E-01	2.90E-01	6.25E+00	1.60E+00	ND						ND						ND					
Calcium	mg/kg	1.79E+04	1.72E+03	NA	NA	1.81E+03			YES			7.64E+02						1.52E+03					
Chromium	mg/kg	1.34E+02	3.70E+01	2.32E+01	4.00E-01	1.37E+01					YES	1.81E+01					YES	1.58E+01					YES
Cobalt	mg/kg	7.10E+01	1.52E+01	4.68E+02	2.00E+01	1.33E+01						1.59E+01			YES			6.42E+00					
Copper	mg/kg	2.40E+01	1.27E+01	3.13E+02	4.00E+01	1.04E+02		YES	YES		YES	1.99E+02		YES	YES		YES	1.35E+01			YES		
Iron	mg/kg	5.63E+04	3.42E+04	2.34E+03	2.00E+02	2.33E+04				YES	YES	3.11E+04				YES	YES	1.72E+04				YES	YES
Lead	mg/kg	8.30E+01	4.01E+01	4.00E+02	5.00E+01	2.16E+01						6.62E+01			YES		YES	1.54E+01					
Magnesium	mg/kg	9.60E+03	1.03E+03	NA	4.40E+05	7.84E+02						1.31E+03			YES			6.76E+02					
Manganese	mg/kg	6.85E+03	1.58E+03	3.63E+02	1.00E+02	1.39E+03				YES	YES	4.35E+03			YES	YES	YES	5.00E+02				YES	YES
Mercury	mg/kg	3.20E-01	8.00E-02	2.33E+00	1.00E-01	ND						6.00E-02	J					ND					
Nickel	mg/kg	2.20E+01	1.03E+01	1.54E+02	3.00E+01	1.53E+01			YES			2.09E+01			YES			7.56E+00	B				
Potassium	mg/kg	6.01E+03	8.00E+02	NA	NA	5.64E+02	J					7.39E+02						7.45E+02					
Selenium	mg/kg	1.30E+00	4.80E-01	3.91E+01	8.10E-01	ND						ND						ND					
Silver	mg/kg	1.90E+00	3.60E-01	3.91E+01	2.00E+00	ND						1.32E+00	J		YES			ND					
Sodium	mg/kg	5.63E+02	6.34E+02	NA	NA	ND						5.78E+01	B					ND					
Vanadium	mg/kg	1.58E+02	5.88E+01	5.31E+01	2.00E+00	2.62E+01					YES	3.09E+01					YES	3.08E+01					YES
Zinc	mg/kg	2.09E+02	4.06E+01	2.34E+03	5.00E+01	1.17E+03		YES	YES		YES	9.11E+01			YES		YES	4.50E+01			YES		
SEMIVOLATILE ORGANIC COMPOUNDS																							
Acenaphthylene	mg/kg	NA	8.91E-01	4.63E+02	6.82E+02	ND						ND						ND					
Anthracene	mg/kg	NA	9.35E-01	2.33E+03	1.00E-01	ND						ND						ND					
Benzo(a)anthracene	mg/kg	NA	1.19E+00	8.51E-01	5.21E+00	ND						ND						ND					
Benzo(a)pyrene	mg/kg	NA	1.42E+00	8.51E-02	1.00E-01	ND						ND						ND					
Benzo(b)fluoranthene	mg/kg	NA	1.66E+00	8.51E-01	5.98E+01	ND						ND						ND					
Benzo(ghi)perylene	mg/kg	NA	9.55E-01	2.32E+02	1.19E+02	ND						ND						ND					
Benzo(k)fluoranthene	mg/kg	NA	1.45E+00	8.51E+00	1.48E+02	ND						ND						ND					
Chrysene	mg/kg	NA	1.40E+00	8.61E+01	4.73E+00	ND						ND						ND					
Dibenz(a,h)anthracene	mg/kg	NA	7.20E-01	8.61E-02	1.84E+01	ND						ND						ND					
Fluoranthene	mg/kg	NA	2.03E+00	3.09E+02	1.00E-01	ND						ND						ND					
Indeno(1,2,3-cd)pyrene	mg/kg	NA	9.37E-01	8.51E-01	1.09E+02	ND						ND						ND					
Phenanthrene	mg/kg	NA	1.08E+00	2.32E+03	1.00E-01	ND						ND						ND					
Pyrene	mg/kg	NA	1.63E+00	2.33E+02	1.00E-01	ND						ND						ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-182						CWM-182						CWM-182					
Sample Location						CWM-182-DEP03						CWM-182-DEP04						CWM-182-DEP05					
Sample Number						TE0016						TE0017						TE0018					
Sample Date						7-Nov-01						7-Nov-01						7-Nov-01					
Sample Depth (Feet)						0- .5						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																							
2-Butanone	mg/kg	NA	NA	4.66E+03	8.96E+01	5.10E-02						ND						2.30E-02	J				
Acetone	mg/kg	NA	NA	7.76E+02	2.50E+00	4.90E-01						6.60E-01	B					4.70E-01	J				
Carbon disulfide	mg/kg	NA	NA	7.77E+02	9.00E-02	ND						ND						ND					
Chloromethane	mg/kg	NA	NA	4.85E+01	1.00E-01	ND						ND						ND					
Methylene chloride	mg/kg	NA	NA	8.41E+01	2.00E+00	ND						ND						ND					
Naphthalene	mg/kg	NA	NA	1.55E+02	1.00E-01	ND						ND						ND					
Toluene	mg/kg	NA	NA	1.55E+03	5.00E-02	1.40E-03	J					ND						6.10E-03	J				
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	1.00E-01	ND						ND						ND					
p-Cymene	mg/kg	NA	NA	1.55E+03	NA	ND						ND						3.10E-02	J				
sec-Butylbenzene	mg/kg	NA	NA	7.77E+01	NA	ND						ND						ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-182						CWM-182						CWM-182					
Sample Location						CWM-182-MW01						CWM-182-MW02						CWM-182-MW03					
Sample Number						TE0001						TE0009						TE0005					
Sample Date						6-Nov-01						26-Nov-01						26-Nov-01					
Sample Depth (Feet)						0- 1						0- 1						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
METALS																							
Aluminum	mg/kg	3.99E+04	1.63E+04	7.80E+03	5.00E+01	1.13E+04				YES	YES	2.16E+04			YES	YES	YES	1.61E+04				YES	YES
Antimony	mg/kg	2.60E+00	1.99E+00	3.11E+00	3.50E+00	ND						ND						ND					
Arsenic	mg/kg	4.90E+01	1.37E+01	4.26E-01	1.00E+01	8.56E+00				YES		8.95E+00				YES		6.10E+00				YES	
Barium	mg/kg	2.88E+02	1.24E+02	5.47E+02	1.65E+02	4.73E+01	J					6.59E+01						7.56E+01					
Beryllium	mg/kg	8.70E-01	8.00E-01	9.60E+00	1.10E+00	ND						4.56E-01	J					5.04E-01	J				
Cadmium	mg/kg	2.10E-01	2.90E-01	6.25E+00	1.60E+00	ND						ND						ND					
Calcium	mg/kg	1.79E+04	1.72E+03	NA	NA	1.71E+02						2.85E+02	B					1.41E+02	B				
Chromium	mg/kg	1.34E+02	3.70E+01	2.32E+01	4.00E-01	1.21E+01					YES	2.04E+01					YES	1.24E+01					YES
Cobalt	mg/kg	7.10E+01	1.52E+01	4.68E+02	2.00E+01	1.50E+01						8.96E+00						6.19E+00					
Copper	mg/kg	2.40E+01	1.27E+01	3.13E+02	4.00E+01	1.09E+01						1.66E+01			YES			9.35E+00					
Iron	mg/kg	5.63E+04	3.42E+04	2.34E+03	2.00E+02	8.90E+03				YES	YES	1.98E+04				YES	YES	1.34E+04				YES	YES
Lead	mg/kg	8.30E+01	4.01E+01	4.00E+02	5.00E+01	8.83E+00	J					1.46E+01						1.15E+01					
Magnesium	mg/kg	9.60E+03	1.03E+03	NA	4.40E+05	7.54E+02						1.12E+03			YES			8.43E+02					
Manganese	mg/kg	6.85E+03	1.58E+03	3.63E+02	1.00E+02	4.40E+02	J			YES	YES	1.70E+02					YES	4.13E+02				YES	YES
Mercury	mg/kg	3.20E-01	8.00E-02	2.33E+00	1.00E-01	ND						ND						3.10E-02	J				
Nickel	mg/kg	2.20E+01	1.03E+01	1.54E+02	3.00E+01	1.03E+01						9.45E+00						1.09E+01			YES		
Potassium	mg/kg	6.01E+03	8.00E+02	NA	NA	5.79E+02	J					1.40E+03			YES			8.48E+02			YES		
Selenium	mg/kg	1.30E+00	4.80E-01	3.91E+01	8.10E-01	ND						7.24E-01	B		YES			ND					
Silver	mg/kg	1.90E+00	3.60E-01	3.91E+01	2.00E+00	ND						ND						ND					
Sodium	mg/kg	5.63E+02	6.34E+02	NA	NA	3.24E+01	J					4.86E+01	J					4.84E+01	J				
Vanadium	mg/kg	1.58E+02	5.88E+01	5.31E+01	2.00E+00	1.77E+01					YES	3.36E+01					YES	2.27E+01					YES
Zinc	mg/kg	2.09E+02	4.06E+01	2.34E+03	5.00E+01	3.16E+01						4.43E+01			YES			3.76E+01					
SEMIVOLATILE ORGANIC COMPOUNDS																							
Acenaphthylene	mg/kg	NA	8.91E-01	4.63E+02	6.82E+02	ND						ND						ND					
Anthracene	mg/kg	NA	9.35E-01	2.33E+03	1.00E-01	ND						ND						ND					
Benzo(a)anthracene	mg/kg	NA	1.19E+00	8.51E-01	5.21E+00	ND						ND						ND					
Benzo(a)pyrene	mg/kg	NA	1.42E+00	8.51E-02	1.00E-01	ND						ND						ND					
Benzo(b)fluoranthene	mg/kg	NA	1.66E+00	8.51E-01	5.98E+01	ND						ND						ND					
Benzo(ghi)perylene	mg/kg	NA	9.55E-01	2.32E+02	1.19E+02	ND						ND						ND					
Benzo(k)fluoranthene	mg/kg	NA	1.45E+00	8.51E+00	1.48E+02	ND						ND						ND					
Chrysene	mg/kg	NA	1.40E+00	8.61E+01	4.73E+00	ND						ND						ND					
Dibenz(a,h)anthracene	mg/kg	NA	7.20E-01	8.61E-02	1.84E+01	ND						ND						ND					
Fluoranthene	mg/kg	NA	2.03E+00	3.09E+02	1.00E-01	ND						ND						ND					
Indeno(1,2,3-cd)pyrene	mg/kg	NA	9.37E-01	8.51E-01	1.09E+02	ND						ND						ND					
Phenanthrene	mg/kg	NA	1.08E+00	2.32E+03	1.00E-01	ND						ND						ND					
Pyrene	mg/kg	NA	1.63E+00	2.33E+02	1.00E-01	ND						ND						ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-182						CWM-182						CWM-182					
Sample Location						CWM-182-MW01						CWM-182-MW02						CWM-182-MW03					
Sample Number						TE0001						TE0009						TE0005					
Sample Date						6-Nov-01						26-Nov-01						26-Nov-01					
Sample Depth (Feet)						0- 1						0- 1						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																							
2-Butanone	mg/kg	NA	NA	4.66E+03	8.96E+01	1.60E-02	J					8.50E-03	J					8.70E-03	J				
Acetone	mg/kg	NA	NA	7.76E+02	2.50E+00	2.40E-01						2.30E-01						2.40E-01					
Carbon disulfide	mg/kg	NA	NA	7.77E+02	9.00E-02	ND						ND						ND					
Chloromethane	mg/kg	NA	NA	4.85E+01	1.00E-01	ND						ND						ND					
Methylene chloride	mg/kg	NA	NA	8.41E+01	2.00E+00	1.90E-03	B					ND						ND					
Naphthalene	mg/kg	NA	NA	1.55E+02	1.00E-01	ND						ND						ND					
Toluene	mg/kg	NA	NA	1.55E+03	5.00E-02	ND						2.10E-03	J					ND					
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	1.00E-01	ND						ND						9.60E-04	B				
p-Cymene	mg/kg	NA	NA	1.55E+03	NA	ND						ND						ND					
sec-Butylbenzene	mg/kg	NA	NA	7.77E+01	NA	ND						ND						ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-182						CWM-182						CWM-182					
Sample Location						CWM-182-MW04						CWM-182-MW05						CWM-182-MW06					
Sample Number						TE0007						TE0003						TE0011					
Sample Date						8-Nov-01						8-Nov-01						6-Nov-01					
Sample Depth (Feet)						0- 1						0- 1						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
METALS																							
Aluminum	mg/kg	3.99E+04	1.63E+04	7.80E+03	5.00E+01	1.17E+04				YES	YES	1.63E+04				YES	YES	9.04E+03				YES	YES
Antimony	mg/kg	2.60E+00	1.99E+00	3.11E+00	3.50E+00	ND						ND						ND					
Arsenic	mg/kg	4.90E+01	1.37E+01	4.26E-01	1.00E+01	9.92E+00				YES		5.85E+00				YES		1.37E+01				YES	YES
Barium	mg/kg	2.88E+02	1.24E+02	5.47E+02	1.65E+02	8.54E+01						6.83E+01						5.24E+01	J				
Beryllium	mg/kg	8.70E-01	8.00E-01	9.60E+00	1.10E+00	5.47E-01	J					ND						5.84E-01	B				
Cadmium	mg/kg	2.10E-01	2.90E-01	6.25E+00	1.60E+00	ND						ND						ND					
Calcium	mg/kg	1.79E+04	1.72E+03	NA	NA	6.35E+02						6.28E+02						2.43E+02					
Chromium	mg/kg	1.34E+02	3.70E+01	2.32E+01	4.00E-01	2.58E+01				YES	YES	1.41E+01					YES	1.29E+01					YES
Cobalt	mg/kg	7.10E+01	1.52E+01	4.68E+02	2.00E+01	1.57E+01			YES			5.61E+00						5.58E+00					
Copper	mg/kg	2.40E+01	1.27E+01	3.13E+02	4.00E+01	6.50E+00						7.37E+00						1.39E+01			YES		
Iron	mg/kg	5.63E+04	3.42E+04	2.34E+03	2.00E+02	1.56E+04				YES	YES	1.36E+04				YES	YES	2.06E+04				YES	YES
Lead	mg/kg	8.30E+01	4.01E+01	4.00E+02	5.00E+01	1.76E+01						9.19E+00						9.58E+00	J				
Magnesium	mg/kg	9.60E+03	1.03E+03	NA	4.40E+05	5.05E+02						8.16E+02						4.32E+02					
Manganese	mg/kg	6.85E+03	1.58E+03	3.63E+02	1.00E+02	1.11E+03				YES	YES	1.29E+02					YES	3.20E+02	J				YES
Mercury	mg/kg	3.20E-01	8.00E-02	2.33E+00	1.00E-01	ND						ND						ND					
Nickel	mg/kg	2.20E+01	1.03E+01	1.54E+02	3.00E+01	3.06E+01		YES	YES		YES	7.47E+00	B					8.58E+00					
Potassium	mg/kg	6.01E+03	8.00E+02	NA	NA	3.71E+02	J					5.20E+02	J					4.28E+02	J				
Selenium	mg/kg	1.30E+00	4.80E-01	3.91E+01	8.10E-01	ND						ND						7.24E-01	B		YES		
Silver	mg/kg	1.90E+00	3.60E-01	3.91E+01	2.00E+00	ND						ND						ND					
Sodium	mg/kg	5.63E+02	6.34E+02	NA	NA	ND						ND						3.96E+01	J				
Vanadium	mg/kg	1.58E+02	5.88E+01	5.31E+01	2.00E+00	3.15E+01					YES	2.69E+01					YES	2.77E+01					YES
Zinc	mg/kg	2.09E+02	4.06E+01	2.34E+03	5.00E+01	2.58E+01						2.75E+01						3.61E+01					
SEMIVOLATILE ORGANIC COMPOUNDS																							
Acenaphthylene	mg/kg	NA	8.91E-01	4.63E+02	6.82E+02	ND						ND						ND					
Anthracene	mg/kg	NA	9.35E-01	2.33E+03	1.00E-01	ND						ND						ND					
Benzo(a)anthracene	mg/kg	NA	1.19E+00	8.51E-01	5.21E+00	ND						ND						ND					
Benzo(a)pyrene	mg/kg	NA	1.42E+00	8.51E-02	1.00E-01	ND						ND						ND					
Benzo(b)fluoranthene	mg/kg	NA	1.66E+00	8.51E-01	5.98E+01	ND						ND						ND					
Benzo(ghi)perylene	mg/kg	NA	9.55E-01	2.32E+02	1.19E+02	ND						ND						ND					
Benzo(k)fluoranthene	mg/kg	NA	1.45E+00	8.51E+00	1.48E+02	ND						ND						ND					
Chrysene	mg/kg	NA	1.40E+00	8.61E+01	4.73E+00	ND						ND						ND					
Dibenz(a,h)anthracene	mg/kg	NA	7.20E-01	8.61E-02	1.84E+01	ND						ND						ND					
Fluoranthene	mg/kg	NA	2.03E+00	3.09E+02	1.00E-01	ND						ND						ND					
Indeno(1,2,3-cd)pyrene	mg/kg	NA	9.37E-01	8.51E-01	1.09E+02	ND						ND						ND					
Phenanthrene	mg/kg	NA	1.08E+00	2.32E+03	1.00E-01	ND						ND						ND					
Pyrene	mg/kg	NA	1.63E+00	2.33E+02	1.00E-01	ND						ND						ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-182						CWM-182						CWM-182					
Sample Location						CWM-182-MW04						CWM-182-MW05						CWM-182-MW06					
Sample Number						TE0007						TE0003						TE0011					
Sample Date						8-Nov-01						8-Nov-01						6-Nov-01					
Sample Depth (Feet)						0- 1						0- 1						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																							
2-Butanone	mg/kg	NA	NA	4.66E+03	8.96E+01	ND						3.00E-02	J					1.90E-02	J				
Acetone	mg/kg	NA	NA	7.76E+02	2.50E+00	2.30E-02						4.40E-01	B					4.10E-01	B				
Carbon disulfide	mg/kg	NA	NA	7.77E+02	9.00E-02	ND						ND						ND					
Chloromethane	mg/kg	NA	NA	4.85E+01	1.00E-01	ND						ND						ND					
Methylene chloride	mg/kg	NA	NA	8.41E+01	2.00E+00	1.90E-03	B					3.10E-03	B					1.90E-03	B				
Naphthalene	mg/kg	NA	NA	1.55E+02	1.00E-01	ND						ND						ND					
Toluene	mg/kg	NA	NA	1.55E+03	5.00E-02	ND						1.40E-02						7.50E-03					
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	1.00E-01	ND						ND						1.60E-03	J				
p-Cymene	mg/kg	NA	NA	1.55E+03	NA	ND						2.10E-02						7.90E-03					
sec-Butylbenzene	mg/kg	NA	NA	7.77E+01	NA	ND						1.30E-03	J					ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-511						CWM-511						CWM-511					
Sample Location						CWM-511-DEP01						CWM-511-DEP02						CWM-511-MW01					
Sample Number						TP0007						TP0008						TP0001					
Sample Date						7-Nov-01						7-Nov-01						22-Oct-01					
Sample Depth (Feet)						0- .5						0- .5						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
METALS																							
Aluminum	mg/kg	3.99E+04	1.63E+04	7.80E+03	5.00E+01	7.80E+03					YES	8.36E+03				YES	YES	1.32E+04				YES	YES
Antimony	mg/kg	2.60E+00	1.99E+00	3.11E+00	3.50E+00	ND						ND						ND					
Arsenic	mg/kg	4.90E+01	1.37E+01	4.26E-01	1.00E+01	7.00E+00				YES		2.89E+00				YES		6.59E+00				YES	
Barium	mg/kg	2.88E+02	1.24E+02	5.47E+02	1.65E+02	3.91E+01						4.94E+01						5.30E+01					
Beryllium	mg/kg	8.70E-01	8.00E-01	9.60E+00	1.10E+00	7.18E-01	J					5.01E-01	J					ND					
Cadmium	mg/kg	2.10E-01	2.90E-01	6.25E+00	1.60E+00	2.27E+00		YES	YES		YES	2.72E+00		YES	YES		YES	ND					
Calcium	mg/kg	1.79E+04	1.72E+03	NA	NA	5.16E+02						7.05E+02						7.75E+03			YES		
Chromium	mg/kg	1.34E+02	3.70E+01	2.32E+01	4.00E-01	3.14E+01				YES	YES	1.48E+01					YES	2.69E+01				YES	YES
Cobalt	mg/kg	7.10E+01	1.52E+01	4.68E+02	2.00E+01	6.72E+00						3.59E+00						3.17E+00					
Copper	mg/kg	2.40E+01	1.27E+01	3.13E+02	4.00E+01	1.19E+02		YES	YES		YES	3.23E+01		YES	YES			8.37E+00					
Iron	mg/kg	5.63E+04	3.42E+04	2.34E+03	2.00E+02	2.96E+04				YES	YES	1.08E+04				YES	YES	1.74E+04				YES	YES
Lead	mg/kg	8.30E+01	4.01E+01	4.00E+02	5.00E+01	2.49E+01						3.19E+01						9.50E+00					
Magnesium	mg/kg	9.60E+03	1.03E+03	NA	4.40E+05	2.81E+02						3.92E+02						4.65E+03			YES		
Manganese	mg/kg	6.85E+03	1.58E+03	3.63E+02	1.00E+02	5.79E+02				YES	YES	1.58E+02					YES	1.28E+02					YES
Mercury	mg/kg	3.20E-01	8.00E-02	2.33E+00	1.00E-01							ND						ND					
Nickel	mg/kg	2.20E+01	1.03E+01	1.54E+02	3.00E+01	5.43E+00						6.10E+00						6.80E+00					
Potassium	mg/kg	6.01E+03	8.00E+02	NA	NA	2.49E+02	J					3.99E+02	J					7.88E+02					
Selenium	mg/kg	1.30E+00	4.80E-01	3.91E+01	8.10E-01	ND						ND						ND					
Silver	mg/kg	1.90E+00	3.60E-01	3.91E+01	2.00E+00	ND						ND						ND					
Sodium	mg/kg	5.63E+02	6.34E+02	NA	NA	4.41E+01	B					4.20E+01	B					5.28E+01	B				
Vanadium	mg/kg	1.58E+02	5.88E+01	5.31E+01	2.00E+00	4.18E+01					YES	1.94E+01					YES	2.69E+01					YES
Zinc	mg/kg	2.09E+02	4.06E+01	2.34E+03	5.00E+01	5.76E+01			YES		YES	1.26E+02			YES		YES	2.67E+01					
SEMIVOLATILE ORGANIC COMPOUNDS																							
Acenaphthylene	mg/kg	NA	8.91E-01	4.63E+02	6.82E+02	ND						ND						ND					
Anthracene	mg/kg	NA	9.35E-01	2.33E+03	1.00E-01	ND						ND						ND					
Benzo(a)anthracene	mg/kg	NA	1.19E+00	8.51E-01	5.21E+00	ND						1.80E-01	J					ND					
Benzo(a)pyrene	mg/kg	NA	1.42E+00	8.51E-02	1.00E-01	ND						2.10E-01	J			YES	YES	1.20E-01	J			YES	YES
Benzo(b)fluoranthene	mg/kg	NA	1.66E+00	8.51E-01	5.98E+01	ND						2.90E-01	J					1.90E-01	J				
Benzo(ghi)perylene	mg/kg	NA	9.55E-01	2.32E+02	1.19E+02	ND						1.20E-01	J					8.30E-02	J				
Benzo(k)fluoranthene	mg/kg	NA	1.45E+00	8.51E+00	1.48E+02	ND						8.70E-02	J					ND					
Chrysene	mg/kg	NA	1.40E+00	8.61E+01	4.73E+00	ND						2.10E-01	J					ND					
Dibenz(a,h)anthracene	mg/kg	NA	7.20E-01	8.61E-02	1.84E+01	ND						ND						ND					
Fluoranthene	mg/kg	NA	2.03E+00	3.09E+02	1.00E-01	ND						4.90E-01					YES	7.90E-02	J				
Indeno(1,2,3-cd)pyrene	mg/kg	NA	9.37E-01	8.51E-01	1.09E+02	ND						1.30E-01	J					8.70E-02	J				
Phenanthrene	mg/kg	NA	1.08E+00	2.32E+03	1.00E-01	ND						2.20E-01	J				YES	ND					
Pyrene	mg/kg	NA	1.63E+00	2.33E+02	1.00E-01	ND						3.50E-01					YES	7.30E-02	J				

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-511						CWM-511						CWM-511					
Sample Location						CWM-511-DEP01						CWM-511-DEP02						CWM-511-MW01					
Sample Number						TP0007						TP0008						TP0001					
Sample Date						7-Nov-01						7-Nov-01						22-Oct-01					
Sample Depth (Feet)						0- .5						0- .5						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																							
2-Butanone	mg/kg	NA	NA	4.66E+03	8.96E+01	3.80E-02						1.40E-02	J					7.30E-03	J				
Acetone	mg/kg	NA	NA	7.76E+02	2.50E+00	3.30E-01						2.10E-01						6.00E-02					
Carbon disulfide	mg/kg	NA	NA	7.77E+02	9.00E-02	ND						2.60E-03	J					2.40E-03	J				
Chloromethane	mg/kg	NA	NA	4.85E+01	1.00E-01	ND						ND						ND					
Methylene chloride	mg/kg	NA	NA	8.41E+01	2.00E+00	ND						ND						1.90E-03	B				
Naphthalene	mg/kg	NA	NA	1.55E+02	1.00E-01	ND						ND						ND					
Toluene	mg/kg	NA	NA	1.55E+03	5.00E-02	4.10E-03	J					2.80E-03	J					ND					
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	1.00E-01	ND						2.60E-03	J					ND					
p-Cymene	mg/kg	NA	NA	1.55E+03	NA	3.10E-03	J					7.30E-03						ND					
sec-Butylbenzene	mg/kg	NA	NA	7.77E+01	NA	ND						ND						ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-511						CWM-511						CWM-512					
Sample Location						CWM-511-MW02						CWM-511-MW03						CWM-512-MW01					
Sample Number						TP0003						TP0005						TPP0001					
Sample Date						22-Oct-01						22-Oct-01						22-Oct-01					
Sample Depth (Feet)						0- 1						0- 1						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
METALS																							
Aluminum	mg/kg	3.99E+04	1.63E+04	7.80E+03	5.00E+01	1.48E+04				YES	YES	1.65E+04			YES	YES	YES	2.66E+04			YES	YES	YES
Antimony	mg/kg	2.60E+00	1.99E+00	3.11E+00	3.50E+00	ND						ND						ND					
Arsenic	mg/kg	4.90E+01	1.37E+01	4.26E-01	1.00E+01	6.59E+00				YES		5.95E+00				YES		1.01E+01				YES	YES
Barium	mg/kg	2.88E+02	1.24E+02	5.47E+02	1.65E+02	5.54E+01						7.29E+01						1.06E+02					
Beryllium	mg/kg	8.70E-01	8.00E-01	9.60E+00	1.10E+00	ND						4.70E-01	J					5.48E-01	B				
Cadmium	mg/kg	2.10E-01	2.90E-01	6.25E+00	1.60E+00	ND						ND						ND					
Calcium	mg/kg	1.79E+04	1.72E+03	NA	NA	6.34E+02						6.25E+02						7.54E+02	J				
Chromium	mg/kg	1.34E+02	3.70E+01	2.32E+01	4.00E-01	1.84E+01					YES	1.54E+01					YES	2.57E+01				YES	YES
Cobalt	mg/kg	7.10E+01	1.52E+01	4.68E+02	2.00E+01	3.65E+00						5.26E+00						4.32E+00					
Copper	mg/kg	2.40E+01	1.27E+01	3.13E+02	4.00E+01	8.82E+00						8.64E+00						1.36E+01			YES		
Iron	mg/kg	5.63E+04	3.42E+04	2.34E+03	2.00E+02	1.86E+04				YES	YES	1.82E+04				YES	YES	2.90E+04				YES	YES
Lead	mg/kg	8.30E+01	4.01E+01	4.00E+02	5.00E+01	8.00E+00						9.05E+00						1.13E+01					
Magnesium	mg/kg	9.60E+03	1.03E+03	NA	4.40E+05	7.43E+02						8.25E+02						1.42E+03			YES		
Manganese	mg/kg	6.85E+03	1.58E+03	3.63E+02	1.00E+02	8.82E+01						1.15E+02					YES	4.37E+01					
Mercury	mg/kg	3.20E-01	8.00E-02	2.33E+00	1.00E-01	ND						ND						ND					
Nickel	mg/kg	2.20E+01	1.03E+01	1.54E+02	3.00E+01	6.27E+00						8.01E+00						9.42E+00					
Potassium	mg/kg	6.01E+03	8.00E+02	NA	NA	1.04E+03			YES			7.62E+02						2.09E+03	J		YES		
Selenium	mg/kg	1.30E+00	4.80E-01	3.91E+01	8.10E-01	ND						ND						6.72E-01	J		YES		
Silver	mg/kg	1.90E+00	3.60E-01	3.91E+01	2.00E+00	ND						ND						ND					
Sodium	mg/kg	5.63E+02	6.34E+02	NA	NA	5.39E+01	B					5.34E+01	B					5.80E+01	B				
Vanadium	mg/kg	1.58E+02	5.88E+01	5.31E+01	2.00E+00	2.68E+01					YES	2.87E+01					YES	4.99E+01					YES
Zinc	mg/kg	2.09E+02	4.06E+01	2.34E+03	5.00E+01	1.89E+01						2.66E+01						3.12E+01					
SEMIVOLATILE ORGANIC COMPOUNDS																							
Acenaphthylene	mg/kg	NA	8.91E-01	4.63E+02	6.82E+02	ND						1.30E-01	J					ND					
Anthracene	mg/kg	NA	9.35E-01	2.33E+03	1.00E-01	ND						7.90E-02	J					ND					
Benzo(a)anthracene	mg/kg	NA	1.19E+00	8.51E-01	5.21E+00	ND						4.10E-01						ND					
Benzo(a)pyrene	mg/kg	NA	1.42E+00	8.51E-02	1.00E-01	ND						5.70E-01				YES	YES	ND					
Benzo(b)fluoranthene	mg/kg	NA	1.66E+00	8.51E-01	5.98E+01	7.90E-02	J					8.10E-01						ND					
Benzo(ghi)perylene	mg/kg	NA	9.55E-01	2.32E+02	1.19E+02	ND						3.50E-01	J					ND					
Benzo(k)fluoranthene	mg/kg	NA	1.45E+00	8.51E+00	1.48E+02	ND						2.30E-01	J					ND					
Chrysene	mg/kg	NA	1.40E+00	8.61E+01	4.73E+00	ND						4.00E-01						ND					
Dibenz(a,h)anthracene	mg/kg	NA	7.20E-01	8.61E-02	1.84E+01	ND						1.20E-01	J			YES		ND					
Fluoranthene	mg/kg	NA	2.03E+00	3.09E+02	1.00E-01	ND						9.50E-01					YES	ND					
Indeno(1,2,3-cd)pyrene	mg/kg	NA	9.37E-01	8.51E-01	1.09E+02	ND						3.70E-01	J					ND					
Phenanthrene	mg/kg	NA	1.08E+00	2.32E+03	1.00E-01	ND						ND						ND					
Pyrene	mg/kg	NA	1.63E+00	2.33E+02	1.00E-01	ND						7.20E-01					YES	ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-511						CWM-511						CWM-512					
Sample Location						CWM-511-MW02						CWM-511-MW03						CWM-512-MW01					
Sample Number						TP0003						TP0005						TPP0001					
Sample Date						22-Oct-01						22-Oct-01						22-Oct-01					
Sample Depth (Feet)						0- 1						0- 1						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																							
2-Butanone	mg/kg	NA	NA	4.66E+03	8.96E+01	ND						ND						ND					
Acetone	mg/kg	NA	NA	7.76E+02	2.50E+00	4.40E-02						4.00E-02						7.30E-03	J				
Carbon disulfide	mg/kg	NA	NA	7.77E+02	9.00E-02	1.70E-03	J					1.90E-03	J					ND					
Chloromethane	mg/kg	NA	NA	4.85E+01	1.00E-01	ND						ND						ND					
Methylene chloride	mg/kg	NA	NA	8.41E+01	2.00E+00	1.90E-03	B					2.00E-03	B					ND					
Naphthalene	mg/kg	NA	NA	1.55E+02	1.00E-01	ND						6.40E-03	J					ND					
Toluene	mg/kg	NA	NA	1.55E+03	5.00E-02	ND						ND						ND					
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	1.00E-01	ND						ND						ND					
p-Cymene	mg/kg	NA	NA	1.55E+03	NA	ND						ND						ND					
sec-Butylbenzene	mg/kg	NA	NA	7.77E+01	NA	ND						ND						ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-513						CWM-513						CWM-513					
Sample Location						CWM-513-DEP01						CWM-513-MW01						CWM-513-MW02					
Sample Number						TR0005						TR0001						TR0003					
Sample Date						8-Nov-01						24-Oct-01						6-Nov-01					
Sample Depth (Feet)						0- .5						0- 1						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
METALS																							
Aluminum	mg/kg	3.99E+04	1.63E+04	7.80E+03	5.00E+01	3.97E+03					YES	1.31E+04				YES	YES	9.87E+03				YES	YES
Antimony	mg/kg	2.60E+00	1.99E+00	3.11E+00	3.50E+00	ND						ND						ND					
Arsenic	mg/kg	4.90E+01	1.37E+01	4.26E-01	1.00E+01	8.15E+00				YES		2.59E+01			YES	YES	YES	6.24E+00				YES	
Barium	mg/kg	2.88E+02	1.24E+02	5.47E+02	1.65E+02	2.71E+01						8.86E+01						5.33E+01					
Beryllium	mg/kg	8.70E-01	8.00E-01	9.60E+00	1.10E+00	4.01E-01	J					6.60E-01	J					4.76E-01	B				
Cadmium	mg/kg	2.10E-01	2.90E-01	6.25E+00	1.60E+00	1.77E+00		YES	YES		YES	ND						ND					
Calcium	mg/kg	1.79E+04	1.72E+03	NA	NA	1.60E+02						2.08E+03			YES			3.72E+02					
Chromium	mg/kg	1.34E+02	3.70E+01	2.32E+01	4.00E-01	1.83E+01					YES	1.68E+01					YES	1.48E+01					YES
Cobalt	mg/kg	7.10E+01	1.52E+01	4.68E+02	2.00E+01	4.75E+00						7.01E+00						6.60E+00					
Copper	mg/kg	2.40E+01	1.27E+01	3.13E+02	4.00E+01	1.76E+01			YES			1.39E+01			YES			7.65E+00					
Iron	mg/kg	5.63E+04	3.42E+04	2.34E+03	2.00E+02	1.75E+04				YES	YES	1.89E+04				YES	YES	1.61E+04				YES	YES
Lead	mg/kg	8.30E+01	4.01E+01	4.00E+02	5.00E+01	1.10E+01						1.33E+01						9.84E+00					
Magnesium	mg/kg	9.60E+03	1.03E+03	NA	4.40E+05	1.19E+02						8.30E+02						4.34E+02					
Manganese	mg/kg	6.85E+03	1.58E+03	3.63E+02	1.00E+02	4.34E+02				YES	YES	2.35E+02					YES	2.01E+02					YES
Mercury	mg/kg	3.20E-01	8.00E-02	2.33E+00	1.00E-01	ND						ND						ND					
Nickel	mg/kg	2.20E+01	1.03E+01	1.54E+02	3.00E+01	3.60E+00						7.67E+00						6.27E+00					
Potassium	mg/kg	6.01E+03	8.00E+02	NA	NA	2.03E+02	J					7.77E+02						4.53E+02	J				
Selenium	mg/kg	1.30E+00	4.80E-01	3.91E+01	8.10E-01	ND						7.74E-01	J		YES			ND					
Silver	mg/kg	1.90E+00	3.60E-01	3.91E+01	2.00E+00	ND						ND						ND					
Sodium	mg/kg	5.63E+02	6.34E+02	NA	NA	2.44E+01	B					5.28E+01	J					3.89E+01	J				
Vanadium	mg/kg	1.58E+02	5.88E+01	5.31E+01	2.00E+00	2.74E+01					YES	3.31E+01					YES	2.01E+01					YES
Zinc	mg/kg	2.09E+02	4.06E+01	2.34E+03	5.00E+01	3.63E+01						3.02E+01						2.24E+01					
SEMIVOLATILE ORGANIC COMPOUNDS																							
Acenaphthylene	mg/kg	NA	8.91E-01	4.63E+02	6.82E+02	ND						ND						ND					
Anthracene	mg/kg	NA	9.35E-01	2.33E+03	1.00E-01	ND						ND						ND					
Benzo(a)anthracene	mg/kg	NA	1.19E+00	8.51E-01	5.21E+00	ND						9.80E-02	J					ND					
Benzo(a)pyrene	mg/kg	NA	1.42E+00	8.51E-02	1.00E-01	ND						1.10E-01	J			YES	YES	ND					
Benzo(b)fluoranthene	mg/kg	NA	1.66E+00	8.51E-01	5.98E+01	ND						1.70E-01	J					ND					
Benzo(ghi)perylene	mg/kg	NA	9.55E-01	2.32E+02	1.19E+02	ND						7.80E-02	J					ND					
Benzo(k)fluoranthene	mg/kg	NA	1.45E+00	8.51E+00	1.48E+02	ND						6.20E-02	J					ND					
Chrysene	mg/kg	NA	1.40E+00	8.61E+01	4.73E+00	ND						1.10E-01	J					ND					
Dibenz(a,h)anthracene	mg/kg	NA	7.20E-01	8.61E-02	1.84E+01	ND						ND						ND					
Fluoranthene	mg/kg	NA	2.03E+00	3.09E+02	1.00E-01	ND						2.60E-01	J				YES	ND					
Indeno(1,2,3-cd)pyrene	mg/kg	NA	9.37E-01	8.51E-01	1.09E+02	ND						8.80E-02	J					ND					
Phenanthrene	mg/kg	NA	1.08E+00	2.32E+03	1.00E-01	ND						1.20E-01	J				YES	ND					
Pyrene	mg/kg	NA	1.63E+00	2.33E+02	1.00E-01	ND						1.90E-01	J				YES	ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-513						CWM-513						CWM-513					
Sample Location						CWM-513-DEP01						CWM-513-MW01						CWM-513-MW02					
Sample Number						TR0005						TR0001						TR0003					
Sample Date						8-Nov-01						24-Oct-01						6-Nov-01					
Sample Depth (Feet)						0- .5						0- 1						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																							
2-Butanone	mg/kg	NA	NA	4.66E+03	8.96E+01	2.70E-02						ND						ND					
Acetone	mg/kg	NA	NA	7.76E+02	2.50E+00	2.40E-01						3.30E-02						8.00E-02					
Carbon disulfide	mg/kg	NA	NA	7.77E+02	9.00E-02	ND						ND						ND					
Chloromethane	mg/kg	NA	NA	4.85E+01	1.00E-01	3.70E-03	J					ND						ND					
Methylene chloride	mg/kg	NA	NA	8.41E+01	2.00E+00	ND						1.50E-03	B					1.50E-03	B				
Naphthalene	mg/kg	NA	NA	1.55E+02	1.00E-01	ND						ND						ND					
Toluene	mg/kg	NA	NA	1.55E+03	5.00E-02	ND						ND						ND					
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	1.00E-01	2.60E-03	B					ND						1.10E-03	B				
p-Cymene	mg/kg	NA	NA	1.55E+03	NA	ND						ND						ND					
sec-Butylbenzene	mg/kg	NA	NA	7.77E+01	NA	ND						ND						ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-514						CWM-514						CWM-514					
Sample Location						CWM-514-MW01						CWM-514-MW02						CWM-514-MW03					
Sample Number						TT0001						TT0003						TT0005					
Sample Date						6-Nov-01						6-Nov-01						6-Nov-01					
Sample Depth (Feet)						0- 1						0- 1						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
METALS																							
Aluminum	mg/kg	3.99E+04	1.63E+04	7.80E+03	5.00E+01	1.86E+04			YES	YES	YES	1.85E+04			YES	YES	YES	1.85E+04			YES	YES	YES
Antimony	mg/kg	2.60E+00	1.99E+00	3.11E+00	3.50E+00	5.68E+00	B	YES	YES	YES	YES	ND						ND					
Arsenic	mg/kg	4.90E+01	1.37E+01	4.26E-01	1.00E+01	6.98E+00				YES		5.45E+00				YES		6.63E+00				YES	
Barium	mg/kg	2.88E+02	1.24E+02	5.47E+02	1.65E+02	5.99E+01						6.34E+01						9.91E+01					
Beryllium	mg/kg	8.70E-01	8.00E-01	9.60E+00	1.10E+00	5.41E-01	B					4.12E-01	B					6.17E-01	B				
Cadmium	mg/kg	2.10E-01	2.90E-01	6.25E+00	1.60E+00	ND						ND						ND					
Calcium	mg/kg	1.79E+04	1.72E+03	NA	NA	2.39E+02						2.94E+02						4.40E+02					
Chromium	mg/kg	1.34E+02	3.70E+01	2.32E+01	4.00E-01	2.04E+01					YES	2.11E+01					YES	1.50E+01					YES
Cobalt	mg/kg	7.10E+01	1.52E+01	4.68E+02	2.00E+01	5.20E+00						4.53E+00						1.05E+01					
Copper	mg/kg	2.40E+01	1.27E+01	3.13E+02	4.00E+01	8.50E+00						1.01E+01						1.24E+01					
Iron	mg/kg	5.63E+04	3.42E+04	2.34E+03	2.00E+02	5.43E+04			YES	YES	YES	1.53E+04				YES	YES	1.64E+04				YES	YES
Lead	mg/kg	8.30E+01	4.01E+01	4.00E+02	5.00E+01	1.19E+01						9.42E+00						1.57E+01					
Magnesium	mg/kg	9.60E+03	1.03E+03	NA	4.40E+05	5.70E+02						7.33E+02						7.69E+02					
Manganese	mg/kg	6.85E+03	1.58E+03	3.63E+02	1.00E+02	2.90E+02					YES	1.85E+02					YES	4.91E+02				YES	YES
Mercury	mg/kg	3.20E-01	8.00E-02	2.33E+00	1.00E-01	5.08E-02	B					ND						4.80E-02	B				
Nickel	mg/kg	2.20E+01	1.03E+01	1.54E+02	3.00E+01	1.08E+01			YES			1.00E+01						1.35E+01			YES		
Potassium	mg/kg	6.01E+03	8.00E+02	NA	NA	4.04E+02	J					6.27E+02	J					9.46E+02	J		YES		
Selenium	mg/kg	1.30E+00	4.80E-01	3.91E+01	8.10E-01	ND						ND						ND					
Silver	mg/kg	1.90E+00	3.60E-01	3.91E+01	2.00E+00	ND						ND						ND					
Sodium	mg/kg	5.63E+02	6.34E+02	NA	NA	ND						3.88E+01	J					4.25E+01	J				
Vanadium	mg/kg	1.58E+02	5.88E+01	5.31E+01	2.00E+00	3.71E+01					YES	3.02E+01					YES	2.88E+01					YES
Zinc	mg/kg	2.09E+02	4.06E+01	2.34E+03	5.00E+01	3.66E+01						3.08E+01						3.68E+01					
SEMIVOLATILE ORGANIC COMPOUNDS																							
Acenaphthylene	mg/kg	NA	8.91E-01	4.63E+02	6.82E+02	ND						ND						ND					
Anthracene	mg/kg	NA	9.35E-01	2.33E+03	1.00E-01	ND						ND						ND					
Benzo(a)anthracene	mg/kg	NA	1.19E+00	8.51E-01	5.21E+00	ND						ND						ND					
Benzo(a)pyrene	mg/kg	NA	1.42E+00	8.51E-02	1.00E-01	ND						ND						ND					
Benzo(b)fluoranthene	mg/kg	NA	1.66E+00	8.51E-01	5.98E+01	ND						ND						ND					
Benzo(ghi)perylene	mg/kg	NA	9.55E-01	2.32E+02	1.19E+02	ND						ND						ND					
Benzo(k)fluoranthene	mg/kg	NA	1.45E+00	8.51E+00	1.48E+02	ND						ND						ND					
Chrysene	mg/kg	NA	1.40E+00	8.61E+01	4.73E+00	ND						ND						ND					
Dibenz(a,h)anthracene	mg/kg	NA	7.20E-01	8.61E-02	1.84E+01	ND						ND						ND					
Fluoranthene	mg/kg	NA	2.03E+00	3.09E+02	1.00E-01	ND						ND						ND					
Indeno(1,2,3-cd)pyrene	mg/kg	NA	9.37E-01	8.51E-01	1.09E+02	ND						ND						ND					
Phenanthrene	mg/kg	NA	1.08E+00	2.32E+03	1.00E-01	ND						ND						ND					
Pyrene	mg/kg	NA	1.63E+00	2.33E+02	1.00E-01	ND						ND						ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-514						CWM-514						CWM-514					
Sample Location						CWM-514-MW01						CWM-514-MW02						CWM-514-MW03					
Sample Number						TT0001						TT0003						TT0005					
Sample Date						6-Nov-01						6-Nov-01						6-Nov-01					
Sample Depth (Feet)						0- 1						0- 1						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																							
2-Butanone	mg/kg	NA	NA	4.66E+03	8.96E+01	4.90E-03	J					ND						6.40E-03	J				
Acetone	mg/kg	NA	NA	7.76E+02	2.50E+00	1.40E-01						1.00E-01						1.70E-01					
Carbon disulfide	mg/kg	NA	NA	7.77E+02	9.00E-02	ND						ND						ND					
Chloromethane	mg/kg	NA	NA	4.85E+01	1.00E-01	ND						ND						ND					
Methylene chloride	mg/kg	NA	NA	8.41E+01	2.00E+00	ND						ND						ND					
Naphthalene	mg/kg	NA	NA	1.55E+02	1.00E-01	ND						ND						ND					
Toluene	mg/kg	NA	NA	1.55E+03	5.00E-02	ND						ND						ND					
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	1.00E-01	ND						ND						ND					
p-Cymene	mg/kg	NA	NA	1.55E+03	NA	ND						ND						ND					
sec-Butylbenzene	mg/kg	NA	NA	7.77E+01	NA	ND						ND						ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-516						CWM-516					
Sample Location						CWM-516-MW01						CWM-516-MW02					
Sample Number						TRR0001						TRR0003					
Sample Date						6-Nov-01						24-Oct-01					
Sample Depth (Feet)						0- 1						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
METALS																	
Aluminum	mg/kg	3.99E+04	1.63E+04	7.80E+03	5.00E+01	1.12E+04				YES	YES	1.05E+04				YES	YES
Antimony	mg/kg	2.60E+00	1.99E+00	3.11E+00	3.50E+00	ND						ND					
Arsenic	mg/kg	4.90E+01	1.37E+01	4.26E-01	1.00E+01	9.55E+00				YES		2.76E+00				YES	
Barium	mg/kg	2.88E+02	1.24E+02	5.47E+02	1.65E+02	5.65E+01						3.74E+02		YES	YES		YES
Beryllium	mg/kg	8.70E-01	8.00E-01	9.60E+00	1.10E+00	4.16E-01	J					8.32E-01	J		YES		
Cadmium	mg/kg	2.10E-01	2.90E-01	6.25E+00	1.60E+00	ND						ND					
Calcium	mg/kg	1.79E+04	1.72E+03	NA	NA	5.97E+02						5.74E+02	J				
Chromium	mg/kg	1.34E+02	3.70E+01	2.32E+01	4.00E-01	2.15E+01					YES	2.11E+01					YES
Cobalt	mg/kg	7.10E+01	1.52E+01	4.68E+02	2.00E+01	1.45E+01						2.45E+00					
Copper	mg/kg	2.40E+01	1.27E+01	3.13E+02	4.00E+01	7.12E+00						8.75E+00					
Iron	mg/kg	5.63E+04	3.42E+04	2.34E+03	2.00E+02	1.63E+04				YES	YES	2.16E+04				YES	YES
Lead	mg/kg	8.30E+01	4.01E+01	4.00E+02	5.00E+01	1.68E+01						8.57E+00					
Magnesium	mg/kg	9.60E+03	1.03E+03	NA	4.40E+05	5.01E+02						4.51E+02	J				
Manganese	mg/kg	6.85E+03	1.58E+03	3.63E+02	1.00E+02	5.49E+02				YES	YES	5.72E+01	J				
Mercury	mg/kg	3.20E-01	8.00E-02	2.33E+00	1.00E-01	ND						ND					
Nickel	mg/kg	2.20E+01	1.03E+01	1.54E+02	3.00E+01	5.17E+00						6.63E+00					
Potassium	mg/kg	6.01E+03	8.00E+02	NA	NA	4.63E+02	J					1.22E+03			YES		
Selenium	mg/kg	1.30E+00	4.80E-01	3.91E+01	8.10E-01	9.65E-01	J		YES		YES	ND					
Silver	mg/kg	1.90E+00	3.60E-01	3.91E+01	2.00E+00	ND						ND					
Sodium	mg/kg	5.63E+02	6.34E+02	NA	NA	ND						3.75E+01	J				
Vanadium	mg/kg	1.58E+02	5.88E+01	5.31E+01	2.00E+00	2.66E+01					YES	3.00E+01					YES
Zinc	mg/kg	2.09E+02	4.06E+01	2.34E+03	5.00E+01	2.00E+01						4.28E+01			YES		
SEMIVOLATILE ORGANIC COMPOUNDS																	
Acenaphthylene	mg/kg	NA	8.91E-01	4.63E+02	6.82E+02	ND						ND					
Anthracene	mg/kg	NA	9.35E-01	2.33E+03	1.00E-01	ND						ND					
Benzo(a)anthracene	mg/kg	NA	1.19E+00	8.51E-01	5.21E+00	ND						ND					
Benzo(a)pyrene	mg/kg	NA	1.42E+00	8.51E-02	1.00E-01	ND						ND					
Benzo(b)fluoranthene	mg/kg	NA	1.66E+00	8.51E-01	5.98E+01	ND						ND					
Benzo(ghi)perylene	mg/kg	NA	9.55E-01	2.32E+02	1.19E+02	ND						ND					
Benzo(k)fluoranthene	mg/kg	NA	1.45E+00	8.51E+00	1.48E+02	ND						ND					
Chrysene	mg/kg	NA	1.40E+00	8.61E+01	4.73E+00	ND						ND					
Dibenz(a,h)anthracene	mg/kg	NA	7.20E-01	8.61E-02	1.84E+01	ND						ND					
Fluoranthene	mg/kg	NA	2.03E+00	3.09E+02	1.00E-01	ND						ND					
Indeno(1,2,3-cd)pyrene	mg/kg	NA	9.37E-01	8.51E-01	1.09E+02	ND						ND					
Phenanthrene	mg/kg	NA	1.08E+00	2.32E+03	1.00E-01	ND						ND					
Pyrene	mg/kg	NA	1.63E+00	2.33E+02	1.00E-01	ND						ND					

Table 2-5

Surface and Depositional Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-516						CWM-516					
Sample Location						CWM-516-MW01						CWM-516-MW02					
Sample Number						TRR0001						TRR0003					
Sample Date						6-Nov-01						24-Oct-01					
Sample Depth (Feet)						0- 1						0- 1					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	4.66E+03	8.96E+01	1.10E-02	J					ND					
Acetone	mg/kg	NA	NA	7.76E+02	2.50E+00	2.10E-01						1.90E-02					
Carbon disulfide	mg/kg	NA	NA	7.77E+02	9.00E-02	ND						ND					
Chloromethane	mg/kg	NA	NA	4.85E+01	1.00E-01	ND						ND					
Methylene chloride	mg/kg	NA	NA	8.41E+01	2.00E+00	1.60E-03	B					1.50E-03	B				
Naphthalene	mg/kg	NA	NA	1.55E+02	1.00E-01	ND						ND					
Toluene	mg/kg	NA	NA	1.55E+03	5.00E-02	ND						ND					
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	1.00E-01	ND						3.80E-03	J				
p-Cymene	mg/kg	NA	NA	1.55E+03	NA	ND						ND					
sec-Butylbenzene	mg/kg	NA	NA	7.77E+01	NA	ND						ND					

Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods.

[a] UBR - Upper background range as given in Science Applications International Corporation (SAIC), 1998, *Final Background Metals Survey Report, Fort McClellan, Alabama* , July.

[b] BKG - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in SAIC, 1998. For semivolatiles, concentration listed is the background screening value for soils adjacent to asphalt as given in IT Corporation (IT), 2000, *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama* , July.

[c] Residential human health site-specific screening level (SSSL) and ecological screening value (ESV) as given in IT, 2000.

B - Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero).

J - Compound was positively identified; reported value is an estimated concentration.

mg/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 2-6

Subsurface Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					CWM-180 CWM-180-MW01 TK0002 22-Oct-01 1 - 2					CWM-180 CWM-180-MW02 TK0004 22-Oct-01 2 - 3					CWM-180 CWM-180-MW03 TK0006 22-Oct-01 2 - 3				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/kg	2.46E+04	1.36E+04	7.80E+03	2.49E+04	J	YES	YES	YES	2.30E+04	J		YES	YES	1.84E+04	J		YES	YES
Antimony	mg/kg	9.90E-01	1.31E+00	3.11E+00	5.18E+00	J	YES	YES	YES	ND					5.82E+00	J	YES	YES	YES
Arsenic	mg/kg	3.80E+01	1.83E+01	4.26E-01	2.25E+01			YES	YES	3.07E+01			YES	YES	2.22E+01			YES	YES
Barium	mg/kg	4.50E+03	2.34E+02	5.47E+02	4.83E+01					1.68E+02					1.38E+02				
Beryllium	mg/kg	2.00E+00	8.60E-01	9.60E+00	6.70E-01	B				1.16E+00	B		YES		1.20E+00	B		YES	
Calcium	mg/kg	3.65E+03	6.37E+02	NA	1.01E+02	J				5.36E+02					4.18E+02				
Chromium	mg/kg	5.50E+01	3.83E+01	2.32E+01	3.03E+01				YES	3.39E+01				YES	3.32E+01				YES
Cobalt	mg/kg	9.60E+01	1.75E+01	4.68E+02	4.30E+00					5.29E+01			YES		2.34E+01			YES	
Copper	mg/kg	6.10E+01	1.94E+01	3.13E+02	1.88E+01					1.60E+01					1.59E+01				
Iron	mg/kg	4.80E+04	4.48E+04	2.34E+03	3.95E+04	J			YES	4.73E+04	J		YES	YES	5.00E+04	J	YES	YES	YES
Lead	mg/kg	5.00E+02	3.85E+01	4.00E+02	1.12E+01					6.00E+01			YES		2.94E+01				
Magnesium	mg/kg	5.94E+03	7.66E+02	NA	9.37E+02			YES		9.55E+02			YES		8.60E+02			YES	
Manganese	mg/kg	1.90E+04	1.36E+03	3.63E+02	9.52E+01	J				3.14E+03	J		YES	YES	8.53E+02	J			YES
Mercury	mg/kg	1.20E-01	7.00E-02	2.33E+00	ND					3.32E-02	J				3.06E-02	J			
Nickel	mg/kg	3.80E+01	1.29E+01	1.54E+02	1.38E+01			YES		2.06E+01			YES		1.79E+01			YES	
Potassium	mg/kg	6.15E+03	7.11E+02	NA	8.22E+02			YES		8.11E+02			YES		6.57E+02				
Selenium	mg/kg	5.50E-01	4.70E-01	3.91E+01	7.64E-01	J	YES	YES		7.21E-01	J	YES	YES		ND				
Silver	mg/kg	6.60E-01	2.40E-01	3.91E+01	1.45E+00	B	YES	YES		1.58E+00	B	YES	YES		1.63E+00	B	YES	YES	
Sodium	mg/kg	6.43E+02	7.02E+02	NA	5.53E+01	B				5.32E+01	B				5.25E+01	B			
Vanadium	mg/kg	9.90E+01	6.49E+01	5.31E+01	5.06E+01					5.79E+01				YES	5.17E+01				
Zinc	mg/kg	8.90E+01	3.49E+01	2.34E+03	4.59E+01	J		YES		4.16E+01	J		YES		5.32E+01	J		YES	
SEMIVOLATILE ORGANIC COMPOUNDS																			
Benzo(a)pyrene	mg/kg	NA	NA	8.51E-02	ND					ND					ND				
Benzo(b)fluoranthene	mg/kg	NA	NA	8.51E-01	ND					ND					ND				
Fluoranthene	mg/kg	NA	NA	3.09E+02	ND					ND					ND				
Pyrene	mg/kg	NA	NA	2.33E+02	ND					ND					ND				
VOLATILE ORGANIC COMPOUNDS																			
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	3.13E+00	ND					ND					ND				
2-Butanone	mg/kg	NA	NA	4.66E+03	ND					ND					ND				
4-Methyl-2-pentanone	mg/kg	NA	NA	6.21E+02	ND					ND					5.80E-03	J			
Acetone	mg/kg	NA	NA	7.76E+02	5.70E-03	J				4.50E-02	J				2.60E-02	J			
Cis-1,2-Dichloroethene	mg/kg	NA	NA	7.77E+01	ND					ND					ND				
Methylene chloride	mg/kg	NA	NA	8.41E+01	ND					1.60E-03	B				ND				
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	ND					ND					ND				

Table 2-6

Subsurface Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel					CWM-180					CWM-182					CWM-182				
Sample Location					CWM-180-MW04					CWM-182-MW01					CWM-182-MW02				
Sample Number					TK0010					TE0002					TE0010				
Sample Date					22-Oct-01					6-Nov-01					26-Nov-01				
Sample Depth (Feet)					2 - 3					3 - 4					4 - 5				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/kg	2.46E+04	1.36E+04	7.80E+03	1.68E+04	J		YES	YES	8.16E+03				YES	1.35E+04				YES
Antimony	mg/kg	9.90E-01	1.31E+00	3.11E+00	ND					ND					ND				
Arsenic	mg/kg	3.80E+01	1.83E+01	4.26E-01	9.24E+00				YES	1.60E+01				YES	1.57E+01				YES
Barium	mg/kg	4.50E+03	2.34E+02	5.47E+02	5.48E+01					6.35E+01	J				1.31E+02				
Beryllium	mg/kg	2.00E+00	8.60E-01	9.60E+00	5.61E-01	B				ND					5.84E-01	J			
Calcium	mg/kg	3.65E+03	6.37E+02	NA	3.11E+02					6.01E+01	B				1.04E+02	B			
Chromium	mg/kg	5.50E+01	3.83E+01	2.32E+01	1.67E+01					1.36E+01					2.58E+01				YES
Cobalt	mg/kg	9.60E+01	1.75E+01	4.68E+02	1.50E+01					5.35E+00					4.19E+01			YES	
Copper	mg/kg	6.10E+01	1.94E+01	3.13E+02	9.44E+00					1.35E+01					1.77E+01				
Iron	mg/kg	4.80E+04	4.48E+04	2.34E+03	2.24E+04	J			YES	1.47E+04				YES	3.34E+04				YES
Lead	mg/kg	5.00E+02	3.85E+01	4.00E+02	1.98E+01					1.20E+01	J				3.22E+01				
Magnesium	mg/kg	5.94E+03	7.66E+02	NA	7.81E+02			YES		4.42E+02					5.24E+02				
Manganese	mg/kg	1.90E+04	1.36E+03	3.63E+02	4.29E+02	J			YES	3.60E+02	J				2.49E+03			YES	YES
Mercury	mg/kg	1.20E-01	7.00E-02	2.33E+00	ND					ND					ND				
Nickel	mg/kg	3.80E+01	1.29E+01	1.54E+02	1.09E+01					1.05E+01					9.57E+00				
Potassium	mg/kg	6.15E+03	7.11E+02	NA	4.96E+02	J				3.76E+02	J				6.62E+02				
Selenium	mg/kg	5.50E-01	4.70E-01	3.91E+01	5.90E-01	J	YES	YES		ND					6.08E-01	B	YES	YES	
Silver	mg/kg	6.60E-01	2.40E-01	3.91E+01	ND					ND					1.27E+00	J	YES	YES	
Sodium	mg/kg	6.43E+02	7.02E+02	NA	5.23E+01	B				ND					3.05E+01	J			
Vanadium	mg/kg	9.90E+01	6.49E+01	5.31E+01	3.01E+01					2.01E+01					3.75E+01				
Zinc	mg/kg	8.90E+01	3.49E+01	2.34E+03	2.91E+01	J				3.48E+01					4.14E+01			YES	
SEMIVOLATILE ORGANIC COMPOUNDS																			
Benzo(a)pyrene	mg/kg	NA	NA	8.51E-02	ND					ND					ND				
Benzo(b)fluoranthene	mg/kg	NA	NA	8.51E-01	ND					ND					ND				
Fluoranthene	mg/kg	NA	NA	3.09E+02	ND					ND					ND				
Pyrene	mg/kg	NA	NA	2.33E+02	ND					ND					ND				
VOLATILE ORGANIC COMPOUNDS																			
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	3.13E+00	ND					ND					ND				
2-Butanone	mg/kg	NA	NA	4.66E+03	1.40E-02	J				ND					ND				
4-Methyl-2-pentanone	mg/kg	NA	NA	6.21E+02	ND					ND					ND				
Acetone	mg/kg	NA	NA	7.76E+02	2.30E-01	J				2.20E-02					1.90E-02	B			
Cis-1,2-Dichloroethene	mg/kg	NA	NA	7.77E+01	ND					ND					ND				
Methylene chloride	mg/kg	NA	NA	8.41E+01	ND					1.80E-03	B				ND				
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	ND					ND					ND				

Table 2-6

Subsurface Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel					CWM-182					CWM-182					CWM-182				
Sample Location					CWM-182-MW03					CWM-182-MW04					CWM-182-MW05				
Sample Number					TE0006					TE0008					TE0004				
Sample Date					26-Nov-01					8-Nov-01					8-Nov-01				
Sample Depth (Feet)					4 - 5					7 - 8					11 - 12				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/kg	2.46E+04	1.36E+04	7.80E+03	1.12E+04				YES	9.93E+03				YES	1.87E+04			YES	YES
Antimony	mg/kg	9.90E-01	1.31E+00	3.11E+00	ND					ND					ND				
Arsenic	mg/kg	3.80E+01	1.83E+01	4.26E-01	9.75E+00				YES	3.18E+00				YES	2.90E+01			YES	YES
Barium	mg/kg	4.50E+03	2.34E+02	5.47E+02	9.38E+01					4.45E+01					1.40E+03			YES	YES
Beryllium	mg/kg	2.00E+00	8.60E-01	9.60E+00	3.73E-01	J				ND					2.56E+00		YES	YES	
Calcium	mg/kg	3.65E+03	6.37E+02	NA	5.51E+01	B				5.30E+02					1.28E+03			YES	
Chromium	mg/kg	5.50E+01	3.83E+01	2.32E+01	1.57E+01					7.73E+00					2.07E+01				
Cobalt	mg/kg	9.60E+01	1.75E+01	4.68E+02	8.18E+00					9.01E+00					1.45E+02		YES	YES	
Copper	mg/kg	6.10E+01	1.94E+01	3.13E+02	1.06E+01					6.92E+00					3.68E+01			YES	
Iron	mg/kg	4.80E+04	4.48E+04	2.34E+03	2.03E+04				YES	9.31E+03				YES	4.38E+04				YES
Lead	mg/kg	5.00E+02	3.85E+01	4.00E+02	1.23E+01					9.30E+00					8.37E+01			YES	
Magnesium	mg/kg	5.94E+03	7.66E+02	NA	5.08E+02					4.29E+02					7.57E+02				
Manganese	mg/kg	1.90E+04	1.36E+03	3.63E+02	5.29E+02				YES	2.49E+02					9.29E+03			YES	YES
Mercury	mg/kg	1.20E-01	7.00E-02	2.33E+00	ND					ND					7.90E-02	J		YES	
Nickel	mg/kg	3.80E+01	1.29E+01	1.54E+02	6.80E+00					4.95E+00	B				7.58E+01		YES	YES	
Potassium	mg/kg	6.15E+03	7.11E+02	NA	8.70E+02			YES		2.52E+02	J				8.47E+02			YES	
Selenium	mg/kg	5.50E-01	4.70E-01	3.91E+01	5.53E-01	B	YES	YES		ND					ND				
Silver	mg/kg	6.60E-01	2.40E-01	3.91E+01	1.29E+00	J	YES	YES		ND					ND				
Sodium	mg/kg	6.43E+02	7.02E+02	NA	3.95E+01	J				ND					ND				
Vanadium	mg/kg	9.90E+01	6.49E+01	5.31E+01	2.62E+01					1.63E+01					5.72E+01				YES
Zinc	mg/kg	8.90E+01	3.49E+01	2.34E+03	2.47E+01					1.74E+01					1.21E+02		YES	YES	
SEMIVOLATILE ORGANIC COMPOUNDS																			
Benzo(a)pyrene	mg/kg	NA	NA	8.51E-02	ND					ND					ND				
Benzo(b)fluoranthene	mg/kg	NA	NA	8.51E-01	ND					ND					ND				
Fluoranthene	mg/kg	NA	NA	3.09E+02	ND					ND					ND				
Pyrene	mg/kg	NA	NA	2.33E+02	ND					ND					ND				
VOLATILE ORGANIC COMPOUNDS																			
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	3.13E+00	ND					ND					ND				
2-Butanone	mg/kg	NA	NA	4.66E+03	ND					ND					5.50E-03	J			
4-Methyl-2-pentanone	mg/kg	NA	NA	6.21E+02	ND					ND					ND				
Acetone	mg/kg	NA	NA	7.76E+02	8.70E-03	B				1.30E-02	J				3.80E-02				
Cis-1,2-Dichloroethene	mg/kg	NA	NA	7.77E+01	ND					ND					ND				
Methylene chloride	mg/kg	NA	NA	8.41E+01	ND					1.80E-03	B				2.00E-03	B			
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	ND					ND					ND				

Table 2-6

Subsurface Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel					CWM-182					CWM-511					CWM-511				
Sample Location					CWM-182-MW06					CWM-511-MW01					CWM-511-MW02				
Sample Number					TE0012					TP0002					TP0004				
Sample Date					6-Nov-01					22-Oct-01					22-Oct-01				
Sample Depth (Feet)					11 - 12					7 - 8					3 - 4				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/kg	2.46E+04	1.36E+04	7.80E+03	2.00E+04			YES	YES	2.03E+04			YES	YES	1.55E+04			YES	YES
Antimony	mg/kg	9.90E-01	1.31E+00	3.11E+00	ND					ND					ND				
Arsenic	mg/kg	3.80E+01	1.83E+01	4.26E-01	1.12E+01				YES	1.51E+01				YES	1.16E+01				YES
Barium	mg/kg	4.50E+03	2.34E+02	5.47E+02	9.45E+01	J				1.39E+02					6.44E+01				
Beryllium	mg/kg	2.00E+00	8.60E-01	9.60E+00	6.39E-01	B				1.74E+00			YES		ND				
Calcium	mg/kg	3.65E+03	6.37E+02	NA	8.41E+02			YES		7.63E+02			YES		5.20E+02				
Chromium	mg/kg	5.50E+01	3.83E+01	2.32E+01	1.98E+01					3.44E+01				YES	2.40E+01				YES
Cobalt	mg/kg	9.60E+01	1.75E+01	4.68E+02	2.36E+01			YES		1.33E+01					7.60E+00				
Copper	mg/kg	6.10E+01	1.94E+01	3.13E+02	1.75E+01					1.28E+01					1.02E+01				
Iron	mg/kg	4.80E+04	4.48E+04	2.34E+03	1.87E+04				YES	3.06E+04				YES	3.05E+04				YES
Lead	mg/kg	5.00E+02	3.85E+01	4.00E+02	1.96E+01	J				1.97E+01					9.86E+00				
Magnesium	mg/kg	5.94E+03	7.66E+02	NA	8.12E+02			YES		7.69E+02			YES		7.35E+02				
Manganese	mg/kg	1.90E+04	1.36E+03	3.63E+02	1.29E+03	J			YES	8.60E+02				YES	1.65E+02				
Mercury	mg/kg	1.20E-01	7.00E-02	2.33E+00	ND					ND					ND				
Nickel	mg/kg	3.80E+01	1.29E+01	1.54E+02	1.80E+01			YES		1.84E+01			YES		7.04E+00				
Potassium	mg/kg	6.15E+03	7.11E+02	NA	5.99E+02	J				8.64E+02			YES		1.02E+03			YES	
Selenium	mg/kg	5.50E-01	4.70E-01	3.91E+01	ND					7.84E-01	J	YES	YES		5.83E-01	J	YES	YES	
Silver	mg/kg	6.60E-01	2.40E-01	3.91E+01	ND					ND					ND				
Sodium	mg/kg	6.43E+02	7.02E+02	NA	ND					5.58E+01	B				5.34E+01	B			
Vanadium	mg/kg	9.90E+01	6.49E+01	5.31E+01	3.47E+01					5.62E+01				YES	3.51E+01				
Zinc	mg/kg	8.90E+01	3.49E+01	2.34E+03	4.55E+01			YES		4.74E+01			YES		2.17E+01				
SEMIVOLATILE ORGANIC COMPOUNDS																			
Benzo(a)pyrene	mg/kg	NA	NA	8.51E-02	ND					2.20E-01	J			YES	ND				
Benzo(b)fluoranthene	mg/kg	NA	NA	8.51E-01	ND					ND					ND				
Fluoranthene	mg/kg	NA	NA	3.09E+02	ND					ND					ND				
Pyrene	mg/kg	NA	NA	2.33E+02	ND					ND					ND				
VOLATILE ORGANIC COMPOUNDS																			
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	3.13E+00	ND					ND					ND				
2-Butanone	mg/kg	NA	NA	4.66E+03	ND					6.00E-03	J				ND				
4-Methyl-2-pentanone	mg/kg	NA	NA	6.21E+02	ND					ND					ND				
Acetone	mg/kg	NA	NA	7.76E+02	2.70E-02	J				4.50E-02					3.80E-02				
Cis-1,2-Dichloroethene	mg/kg	NA	NA	7.77E+01	ND					1.40E-03	J				ND				
Methylene chloride	mg/kg	NA	NA	8.41E+01	1.40E-03	B				2.30E-03	B				1.60E-03	B			
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	ND					ND					ND				

Table 2-6

Subsurface Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel					CWM-511					CWM-512					CWM-513				
Sample Location					CWM-511-MW03					CWM-512-MW01					CWM-513-MW01				
Sample Number					TP0006					TPP0003					TR0002				
Sample Date					22-Oct-01					22-Oct-01					24-Oct-01				
Sample Depth (Feet)					7 - 8					3 - 4					11 - 12				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/kg	2.46E+04	1.36E+04	7.80E+03	1.05E+04				YES	2.82E+04		YES	YES	YES	3.43E+04		YES	YES	YES
Antimony	mg/kg	9.90E-01	1.31E+00	3.11E+00	ND					ND					ND				
Arsenic	mg/kg	3.80E+01	1.83E+01	4.26E-01	1.04E+01				YES	1.09E+01				YES	1.39E+01				YES
Barium	mg/kg	4.50E+03	2.34E+02	5.47E+02	9.63E+01					1.05E+02					1.31E+02				
Beryllium	mg/kg	2.00E+00	8.60E-01	9.60E+00	6.32E-01	J				4.89E-01	B				1.68E+00			YES	
Calcium	mg/kg	3.65E+03	6.37E+02	NA	3.88E+02					1.80E+03			YES		1.82E+03			YES	
Chromium	mg/kg	5.50E+01	3.83E+01	2.32E+01	1.52E+01					2.80E+01				YES	3.86E+01			YES	YES
Cobalt	mg/kg	9.60E+01	1.75E+01	4.68E+02	8.99E+00					4.21E+00					1.08E+01				
Copper	mg/kg	6.10E+01	1.94E+01	3.13E+02	1.06E+01					1.44E+01					2.36E+01			YES	
Iron	mg/kg	4.80E+04	4.48E+04	2.34E+03	1.76E+04				YES	3.15E+04				YES	4.02E+04				YES
Lead	mg/kg	5.00E+02	3.85E+01	4.00E+02	1.16E+01					1.23E+01					1.05E+01				
Magnesium	mg/kg	5.94E+03	7.66E+02	NA	5.30E+02					2.07E+03			YES		1.51E+03			YES	
Manganese	mg/kg	1.90E+04	1.36E+03	3.63E+02	4.70E+02				YES	5.29E+01					1.06E+02				
Mercury	mg/kg	1.20E-01	7.00E-02	2.33E+00	ND					ND					6.07E-02	J			
Nickel	mg/kg	3.80E+01	1.29E+01	1.54E+02	1.00E+01					1.00E+01					2.93E+01			YES	
Potassium	mg/kg	6.15E+03	7.11E+02	NA	7.87E+02			YES		2.15E+03			YES		1.57E+03			YES	
Selenium	mg/kg	5.50E-01	4.70E-01	3.91E+01	ND					6.89E-01	J	YES	YES		1.06E+00	J	YES	YES	
Silver	mg/kg	6.60E-01	2.40E-01	3.91E+01	ND					ND					ND				
Sodium	mg/kg	6.43E+02	7.02E+02	NA	4.96E+01	B				5.75E+01	B				6.08E+01	J			
Vanadium	mg/kg	9.90E+01	6.49E+01	5.31E+01	2.06E+01					5.47E+01				YES	4.84E+01				
Zinc	mg/kg	8.90E+01	3.49E+01	2.34E+03	4.01E+01			YES		3.46E+01					6.02E+01			YES	
SEMIVOLATILE ORGANIC COMPOUNDS																			
Benzo(a)pyrene	mg/kg	NA	NA	8.51E-02	1.70E-01	J			YES	6.10E-02	J				ND				
Benzo(b)fluoranthene	mg/kg	NA	NA	8.51E-01	ND					8.90E-02	J				ND				
Fluoranthene	mg/kg	NA	NA	3.09E+02	ND					8.60E-02	J				ND				
Pyrene	mg/kg	NA	NA	2.33E+02	ND					8.10E-02	J				ND				
VOLATILE ORGANIC COMPOUNDS																			
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	3.13E+00	ND					ND					ND				
2-Butanone	mg/kg	NA	NA	4.66E+03	ND					ND					ND				
4-Methyl-2-pentanone	mg/kg	NA	NA	6.21E+02	ND					ND					ND				
Acetone	mg/kg	NA	NA	7.76E+02	1.40E-02	J				1.10E-02	J				4.90E-03	J			
Cis-1,2-Dichloroethene	mg/kg	NA	NA	7.77E+01	ND					ND					ND				
Methylene chloride	mg/kg	NA	NA	8.41E+01	1.70E-03	B				ND					ND				
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	ND					ND					ND				

Table 2-6

Subsurface Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel					CWM-513					CWM-514					CWM-514				
Sample Location					CWM-513-MW02					CWM-514-MW01					CWM-514-MW02				
Sample Number					TR0004					TT0002					TT0004				
Sample Date					6-Nov-01					6-Nov-01					6-Nov-01				
Sample Depth (Feet)					11 - 12					11 - 12					9 - 10				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/kg	2.46E+04	1.36E+04	7.80E+03	1.60E+04			YES	YES	4.10E+04		YES	YES	YES	1.99E+04			YES	YES
Antimony	mg/kg	9.90E-01	1.31E+00	3.11E+00	ND					ND					ND				
Arsenic	mg/kg	3.80E+01	1.83E+01	4.26E-01	1.53E+01				YES	1.03E+01				YES	1.80E+01				YES
Barium	mg/kg	4.50E+03	2.34E+02	5.47E+02	1.26E+02					4.65E+01					5.70E+01				
Beryllium	mg/kg	2.00E+00	8.60E-01	9.60E+00	1.34E+00			YES		5.00E-01	B				7.04E-01	B			
Calcium	mg/kg	3.65E+03	6.37E+02	NA	9.69E+02			YES		8.09E+01	J				1.05E+02	J			
Chromium	mg/kg	5.50E+01	3.83E+01	2.32E+01	3.00E+01				YES	2.79E+01				YES	3.66E+01				YES
Cobalt	mg/kg	9.60E+01	1.75E+01	4.68E+02	2.23E+01			YES		4.03E+00					9.30E+00				
Copper	mg/kg	6.10E+01	1.94E+01	3.13E+02	1.96E+01			YES		2.15E+01			YES		3.77E+01			YES	
Iron	mg/kg	4.80E+04	4.48E+04	2.34E+03	4.19E+04				YES	2.88E+04				YES	5.00E+04		YES	YES	YES
Lead	mg/kg	5.00E+02	3.85E+01	4.00E+02	1.56E+01					1.44E+01					1.25E+01				
Magnesium	mg/kg	5.94E+03	7.66E+02	NA	5.77E+02					1.03E+03			YES		6.42E+02				
Manganese	mg/kg	1.90E+04	1.36E+03	3.63E+02	5.86E+02				YES	1.10E+02					7.67E+01				
Mercury	mg/kg	1.20E-01	7.00E-02	2.33E+00	ND					4.50E-02	B				ND				
Nickel	mg/kg	3.80E+01	1.29E+01	1.54E+02	2.16E+01			YES		1.97E+01			YES		2.77E+01			YES	
Potassium	mg/kg	6.15E+03	7.11E+02	NA	6.82E+02	J				7.32E+02	J		YES		1.40E+03	J		YES	
Selenium	mg/kg	5.50E-01	4.70E-01	3.91E+01	ND					ND					7.55E-01	B	YES	YES	
Silver	mg/kg	6.60E-01	2.40E-01	3.91E+01	ND					ND					ND				
Sodium	mg/kg	6.43E+02	7.02E+02	NA	ND					ND					ND				
Vanadium	mg/kg	9.90E+01	6.49E+01	5.31E+01	4.67E+01					5.69E+01				YES	6.55E+01			YES	YES
Zinc	mg/kg	8.90E+01	3.49E+01	2.34E+03	5.30E+01			YES		5.75E+01			YES		9.03E+01		YES	YES	
SEMIVOLATILE ORGANIC COMPOUNDS																			
Benzo(a)pyrene	mg/kg	NA	NA	8.51E-02	ND					ND					ND				
Benzo(b)fluoranthene	mg/kg	NA	NA	8.51E-01	ND					ND					ND				
Fluoranthene	mg/kg	NA	NA	3.09E+02	ND					ND					ND				
Pyrene	mg/kg	NA	NA	2.33E+02	ND					ND					ND				
VOLATILE ORGANIC COMPOUNDS																			
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	3.13E+00	ND					ND					ND				
2-Butanone	mg/kg	NA	NA	4.66E+03	ND					ND					ND				
4-Methyl-2-pentanone	mg/kg	NA	NA	6.21E+02	ND					ND					ND				
Acetone	mg/kg	NA	NA	7.76E+02	1.30E-02	J				ND					5.80E-03	J			
Cis-1,2-Dichloroethene	mg/kg	NA	NA	7.77E+01	ND					ND					ND				
Methylene chloride	mg/kg	NA	NA	8.41E+01	ND					ND					ND				
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	2.20E-03	B				ND					ND				

Table 2-6

Subsurface Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel					CWM-514					CWM-516					CWM-516				
Sample Location					CWM-514-MW03					CWM-516-MW01					CWM-516-MW02				
Sample Number					TT0006					TRR0002					TRR0006				
Sample Date					6-Nov-01					6-Nov-01					24-Oct-01				
Sample Depth (Feet)					11 - 12					11 - 12					10 - 11				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/kg	2.46E+04	1.36E+04	7.80E+03	2.92E+04		YES	YES	YES	2.15E+04			YES	YES	1.96E+04			YES	YES
Antimony	mg/kg	9.90E-01	1.31E+00	3.11E+00	ND					ND					ND				
Arsenic	mg/kg	3.80E+01	1.83E+01	4.26E-01	9.09E+00				YES	1.41E+01				YES	9.44E+00				YES
Barium	mg/kg	4.50E+03	2.34E+02	5.47E+02	4.81E+01					5.71E+01					3.82E+01				
Beryllium	mg/kg	2.00E+00	8.60E-01	9.60E+00	4.31E-01	B				8.37E-01	J				5.03E-01	J			
Calcium	mg/kg	3.65E+03	6.37E+02	NA	3.24E+01	B				3.88E+02					7.12E+02			YES	
Chromium	mg/kg	5.50E+01	3.83E+01	2.32E+01	2.46E+01				YES	2.75E+01				YES	1.73E+01				
Cobalt	mg/kg	9.60E+01	1.75E+01	4.68E+02	5.04E+00					1.30E+01					2.12E+01			YES	
Copper	mg/kg	6.10E+01	1.94E+01	3.13E+02	1.69E+01					1.66E+01					1.27E+01				
Iron	mg/kg	4.80E+04	4.48E+04	2.34E+03	2.58E+04				YES	3.32E+04				YES	2.21E+04				YES
Lead	mg/kg	5.00E+02	3.85E+01	4.00E+02	1.28E+01					1.53E+01					1.38E+01				
Magnesium	mg/kg	5.94E+03	7.66E+02	NA	9.35E+02			YES		6.98E+02					7.12E+02				
Manganese	mg/kg	1.90E+04	1.36E+03	3.63E+02	9.31E+01					3.80E+02				YES	5.24E+02				YES
Mercury	mg/kg	1.20E-01	7.00E-02	2.33E+00	2.96E-02	B				ND					3.00E-02	J			
Nickel	mg/kg	3.80E+01	1.29E+01	1.54E+02	1.58E+01			YES		1.53E+01			YES		1.18E+01				
Potassium	mg/kg	6.15E+03	7.11E+02	NA	8.57E+02	J		YES		6.01E+02					4.41E+02	J			
Selenium	mg/kg	5.50E-01	4.70E-01	3.91E+01	ND					9.97E-01	J	YES	YES		ND				
Silver	mg/kg	6.60E-01	2.40E-01	3.91E+01	ND					ND					ND				
Sodium	mg/kg	6.43E+02	7.02E+02	NA	ND					ND					3.80E+01	J			
Vanadium	mg/kg	9.90E+01	6.49E+01	5.31E+01	4.64E+01					4.31E+01					3.81E+01				
Zinc	mg/kg	8.90E+01	3.49E+01	2.34E+03	4.72E+01			YES		4.05E+01			YES		3.11E+01				
SEMIVOLATILE ORGANIC COMPOUNDS																			
Benzo(a)pyrene	mg/kg	NA	NA	8.51E-02	ND					ND					ND				
Benzo(b)fluoranthene	mg/kg	NA	NA	8.51E-01	ND					ND					ND				
Fluoranthene	mg/kg	NA	NA	3.09E+02	ND					ND					ND				
Pyrene	mg/kg	NA	NA	2.33E+02	ND					ND					ND				
VOLATILE ORGANIC COMPOUNDS																			
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	3.13E+00	1.20E-03	J				ND					ND				
2-Butanone	mg/kg	NA	NA	4.66E+03	ND					ND					ND				
4-Methyl-2-pentanone	mg/kg	NA	NA	6.21E+02	ND					ND					ND				
Acetone	mg/kg	NA	NA	7.76E+02	9.90E-03	J				3.60E-02					1.10E-02	J			
Cis-1,2-Dichloroethene	mg/kg	NA	NA	7.77E+01	ND					ND					ND				
Methylene chloride	mg/kg	NA	NA	8.41E+01	1.40E-03	B				1.70E-03	B				ND				
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	ND					ND					2.60E-03	J			

Table 2-6

Subsurface Soil Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods.

[a] UBR - Upper background range as given in Science Applications International Corporation (SAIC), 1998, *Final Background Metals Survey Report, Fort McClellan, Alabama* , July.

[b] BKG - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in SAIC, 1998.

[c] Residential human health site-specific screening level (SSSL) as given in IT Corporation (2000), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama* , July.

B - Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero).

J - Compound was positively identified; reported value is an estimated concentration.

mg/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 2-7

Groundwater Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date					CWM-180 CWM-180-MW01 TK3001 18-Dec-01					CWM-180 CWM-180-MW02 TK3002 14-Dec-01					CWM-180 CWM-180-MW03 TK3003 20-Dec-01				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/L	9.60E+00	2.34E+00	1.56E+00	ND					5.50E-02	J				ND				
Arsenic	mg/L	2.24E-01	1.78E-02	4.40E-05	2.39E-03	B			YES	3.97E-03	B			YES	ND				
Barium	mg/L	4.01E-01	1.27E-01	1.10E-01	3.50E-02					1.56E-02					1.69E-02				
Cadmium	mg/L	5.30E-03	2.51E-03	7.82E-04	ND					ND					ND				
Calcium	mg/L	4.52E+02	5.65E+01	NA	5.58E+01					1.51E+01					1.92E+01				
Chromium	mg/L	NA	NA	4.69E-03	ND					ND					ND				
Cobalt	mg/L	2.50E-02	2.34E-02	9.39E-02	ND					ND					ND				
Copper	mg/L	2.35E-01	2.55E-02	6.26E-02	ND					ND					ND				
Iron	mg/L	2.58E+01	7.04E+00	4.69E-01	5.64E-02	J				1.38E-01	J				8.73E-02	J			
Lead	mg/L	2.70E-02	8.00E-03	1.50E-02	ND					ND					ND				
Magnesium	mg/L	1.49E+02	2.13E+01	NA	2.58E+00					1.50E+00					1.37E+00				
Manganese	mg/L	5.82E+00	5.81E-01	7.35E-02	6.90E-02	J				1.74E-01				YES	2.03E-01				YES
Mercury	mg/L	NA	NA	4.69E-04	ND					ND					ND				
Nickel	mg/L	NA	NA	3.13E-02	ND					ND					ND				
Potassium	mg/L	6.85E+01	7.20E+00	NA	9.32E-01	J				1.72E+00	J				1.68E+00	J			
Selenium	mg/L	NA	NA	7.82E-03	ND					ND					ND				
Sodium	mg/L	6.47E+01	1.48E+01	NA	2.04E+00	B				5.67E+00	B				2.51E+00				
Thallium	mg/L	5.30E-03	1.46E-03	1.01E-04	6.94E-03	B	YES	YES	YES	ND					ND				
Vanadium	mg/L	1.10E-02	1.70E-02	1.10E-02	ND					ND					ND				
Zinc	mg/L	1.16E+00	2.20E-01	4.69E-01	ND					ND					ND				
SEMIVOLATILE ORGANIC COMPOUNDS																			
Bis(2-Ethylhexyl)phthalate	mg/L	NA	NA	4.31E-03	ND					ND					ND				
VOLATILE ORGANIC COMPOUNDS																			
1,1,2,2-Tetrachloroethane	mg/L	NA	NA	2.03E-04	ND					ND					ND				
1,1,2-Trichloroethane	mg/L	NA	NA	7.15E-04	ND					ND					ND				
Acetone	mg/L	NA	NA	1.56E-01	1.80E+00	J			YES	5.50E+00	J			YES	6.60E-02	J			
Carbon tetrachloride	mg/L	NA	NA	4.08E-04	ND					ND					ND				
Chloroform	mg/L	NA	NA	1.15E-03	1.20E-03	J			YES	2.40E-03	J			YES	7.60E-03				YES
Cis-1,2-Dichloroethene	mg/L	NA	NA	1.55E-02	ND					ND					ND				
Methylene chloride	mg/L	NA	NA	7.85E-03	3.90E-04	J				3.40E-04	B				ND				
Tetrachloroethene	mg/L	NA	NA	1.26E-03	ND					ND					ND				
Toluene	mg/L	NA	NA	2.59E-01	ND					ND					ND				
Trichloroethene	mg/L	NA	NA	4.51E-03	ND					ND					2.80E-04	J			

Table 2-7

Groundwater Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date					CWM-180 CWM-180-MW04 TK3004 11-Dec-01					CWM-182 CWM-182-MW01 TE3001 28-Jan-02					CWM-182 CWM-182-MW02 TE3002 19-Dec-01				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/L	9.60E+00	2.34E+00	1.56E+00	ND					7.38E-02	J				ND				
Arsenic	mg/L	2.24E-01	1.78E-02	4.40E-05	ND					1.81E-03	J			YES	2.65E-03	B			YES
Barium	mg/L	4.01E-01	1.27E-01	1.10E-01	9.13E-03	J				1.87E-02					2.10E-01			YES	YES
Cadmium	mg/L	5.30E-03	2.51E-03	7.82E-04	ND					ND					ND				
Calcium	mg/L	4.52E+02	5.65E+01	NA	5.84E+00					2.77E+00					4.13E+00				
Chromium	mg/L	NA	NA	4.69E-03	ND					ND					ND				
Cobalt	mg/L	2.50E-02	2.34E-02	9.39E-02	ND					ND					1.66E-02	J			
Copper	mg/L	2.35E-01	2.55E-02	6.26E-02	ND					ND					ND				
Iron	mg/L	2.58E+01	7.04E+00	4.69E-01	1.28E-01	J				2.47E-02	B				5.36E-02	J			
Lead	mg/L	2.70E-02	8.00E-03	1.50E-02	ND					ND					ND				
Magnesium	mg/L	1.49E+02	2.13E+01	NA	8.88E-01	J				4.52E-01	J				1.32E+00				
Manganese	mg/L	5.82E+00	5.81E-01	7.35E-02	1.54E-01				YES	1.91E-01				YES	2.35E+00			YES	YES
Mercury	mg/L	NA	NA	4.69E-04	ND					ND					ND				
Nickel	mg/L	NA	NA	3.13E-02	ND					ND					2.41E-02	B			
Potassium	mg/L	6.85E+01	7.20E+00	NA	ND					7.81E-01	J				3.16E+00	J			
Selenium	mg/L	NA	NA	7.82E-03	4.88E-03	B				ND					ND				
Sodium	mg/L	6.47E+01	1.48E+01	NA	1.81E+00					2.13E+00	B				1.26E+00	B			
Thallium	mg/L	5.30E-03	1.46E-03	1.01E-04	ND					ND					ND				
Vanadium	mg/L	1.10E-02	1.70E-02	1.10E-02	ND					ND					ND				
Zinc	mg/L	1.16E+00	2.20E-01	4.69E-01	ND					ND					ND				
SEMIVOLATILE ORGANIC COMPOUNDS																			
Bis(2-Ethylhexyl)phthalate	mg/L	NA	NA	4.31E-03	ND					ND					ND				
VOLATILE ORGANIC COMPOUNDS																			
1,1,2,2-Tetrachloroethane	mg/L	NA	NA	2.03E-04	1.50E-02	J			YES	ND					2.60E-02				YES
1,1,2-Trichloroethane	mg/L	NA	NA	7.15E-04	5.60E-04	J				ND					4.30E-04	J			
Acetone	mg/L	NA	NA	1.56E-01	ND					ND					ND				
Carbon tetrachloride	mg/L	NA	NA	4.08E-04	ND					ND					3.70E-02				YES
Chloroform	mg/L	NA	NA	1.15E-03	1.40E-03				YES	ND					8.60E-03				YES
Cis-1,2-Dichloroethene	mg/L	NA	NA	1.55E-02	ND					ND					2.50E-04	J			
Methylene chloride	mg/L	NA	NA	7.85E-03	3.50E-04	B				3.40E-04	B				4.60E-04	B			
Tetrachloroethene	mg/L	NA	NA	1.26E-03	ND					ND					6.60E-04	J			
Toluene	mg/L	NA	NA	2.59E-01	ND					ND					ND				
Trichloroethene	mg/L	NA	NA	4.51E-03	2.80E-02				YES	ND					3.20E-03				

Table 2-7

Groundwater Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date					CWM-182 CWM-182-MW03 TE3003 30-Jan-02					CWM-182 CWM-182-MW04 TE3004 19-Dec-01					CWM-182 CWM-182-MW05 TE3005 24-Jan-02				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/L	9.60E+00	2.34E+00	1.56E+00	3.68E+00			YES	YES	ND					ND				
Arsenic	mg/L	2.24E-01	1.78E-02	4.40E-05	ND					2.13E-03	B			YES	ND				
Barium	mg/L	4.01E-01	1.27E-01	1.10E-01	8.15E-01		YES	YES	YES	7.61E-02					4.63E-02				
Cadmium	mg/L	5.30E-03	2.51E-03	7.82E-04	ND					ND					ND				
Calcium	mg/L	4.52E+02	5.65E+01	NA	9.05E+00					4.03E+01					5.81E+01			YES	
Chromium	mg/L	NA	NA	4.69E-03	9.64E-03	J			YES	ND					ND				
Cobalt	mg/L	2.50E-02	2.34E-02	9.39E-02	1.11E-02	J				ND					ND				
Copper	mg/L	2.35E-01	2.55E-02	6.26E-02	1.13E-02	J				ND					ND				
Iron	mg/L	2.58E+01	7.04E+00	4.69E-01	3.57E+00				YES	6.90E-02	J				7.99E-03	B			
Lead	mg/L	2.70E-02	8.00E-03	1.50E-02	4.30E-03	J				ND					ND				
Magnesium	mg/L	1.49E+02	2.13E+01	NA	2.37E+00					6.88E+00					9.65E+00				
Manganese	mg/L	5.82E+00	5.81E-01	7.35E-02	5.48E+00			YES	YES	8.98E-01			YES	YES	1.80E-01				YES
Mercury	mg/L	NA	NA	4.69E-04	ND					ND					ND				
Nickel	mg/L	NA	NA	3.13E-02	1.94E-02	J				ND					ND				
Potassium	mg/L	6.85E+01	7.20E+00	NA	6.02E+00					2.03E+00	J				1.08E+00	B			
Selenium	mg/L	NA	NA	7.82E-03	ND					ND					ND				
Sodium	mg/L	6.47E+01	1.48E+01	NA	1.98E+00	B				2.52E+00	B				3.19E+00				
Thallium	mg/L	5.30E-03	1.46E-03	1.01E-04	ND					ND					ND				
Vanadium	mg/L	1.10E-02	1.70E-02	1.10E-02	8.35E-03	J				ND					ND				
Zinc	mg/L	1.16E+00	2.20E-01	4.69E-01	4.68E-02	J				ND					ND				
SEMIVOLATILE ORGANIC COMPOUNDS																			
Bis(2-Ethylhexyl)phthalate	mg/L	NA	NA	4.31E-03	ND					1.20E-01				YES	ND				
VOLATILE ORGANIC COMPOUNDS																			
1,1,2,2-Tetrachloroethane	mg/L	NA	NA	2.03E-04	ND					ND					ND				
1,1,2-Trichloroethane	mg/L	NA	NA	7.15E-04	ND					ND					ND				
Acetone	mg/L	NA	NA	1.56E-01	ND					ND					ND				
Carbon tetrachloride	mg/L	NA	NA	4.08E-04	8.70E-04	J			YES	ND					ND				
Chloroform	mg/L	NA	NA	1.15E-03	5.60E-04	B				2.70E-03				YES	3.20E-03				YES
Cis-1,2-Dichloroethene	mg/L	NA	NA	1.55E-02	ND					ND					ND				
Methylene chloride	mg/L	NA	NA	7.85E-03	3.60E-04	B				3.20E-04	B				3.40E-04	B			
Tetrachloroethene	mg/L	NA	NA	1.26E-03	ND					ND					ND				
Toluene	mg/L	NA	NA	2.59E-01	ND					ND					ND				
Trichloroethene	mg/L	NA	NA	4.51E-03	ND					ND					1.00E-03				

Table 2-7

Groundwater Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date					CWM-182 CWM-182-MW06 TE3006 25-Jan-02				CWM-511 CWM-511-MW01 TP3001 3-Dec-01					CWM-511 CWM-511-MW02 TP3002 30-Nov-01				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																		
Aluminum	mg/L	9.60E+00	2.34E+00	1.56E+00	ND				7.50E-02	J				8.90E-02	B			
Arsenic	mg/L	2.24E-01	1.78E-02	4.40E-05	ND				7.12E-03	B			YES	ND				
Barium	mg/L	4.01E-01	1.27E-01	1.10E-01	5.88E-02				1.95E-01			YES	YES	4.68E-02				
Cadmium	mg/L	5.30E-03	2.51E-03	7.82E-04	ND				ND					ND				
Calcium	mg/L	4.52E+02	5.65E+01	NA	5.74E+01		YES		4.99E+01					3.94E+01				
Chromium	mg/L	NA	NA	4.69E-03	ND				ND					ND				
Cobalt	mg/L	2.50E-02	2.34E-02	9.39E-02	ND				ND					ND				
Copper	mg/L	2.35E-01	2.55E-02	6.26E-02	ND				ND					ND				
Iron	mg/L	2.58E+01	7.04E+00	4.69E-01	5.14E-02	J			1.06E+01	J		YES	YES	1.18E-01	J			
Lead	mg/L	2.70E-02	8.00E-03	1.50E-02	ND				ND					ND				
Magnesium	mg/L	1.49E+02	2.13E+01	NA	8.88E+00				3.69E+00					3.94E+00	J			
Manganese	mg/L	5.82E+00	5.81E-01	7.35E-02	2.88E-02	J			4.06E+00			YES	YES	1.38E-01				YES
Mercury	mg/L	NA	NA	4.69E-04	ND				ND					ND				
Nickel	mg/L	NA	NA	3.13E-02	ND				ND					ND				
Potassium	mg/L	6.85E+01	7.20E+00	NA	ND				8.75E-01	J				ND				
Selenium	mg/L	NA	NA	7.82E-03	ND				ND					ND				
Sodium	mg/L	6.47E+01	1.48E+01	NA	2.13E+00	B			6.11E+00					2.11E+00	J			
Thallium	mg/L	5.30E-03	1.46E-03	1.01E-04	ND				ND					5.82E-03	B	YES	YES	YES
Vanadium	mg/L	1.10E-02	1.70E-02	1.10E-02	ND				ND					ND				
Zinc	mg/L	1.16E+00	2.20E-01	4.69E-01	ND				ND					ND				
SEMIVOLATILE ORGANIC COMPOUNDS																		
Bis(2-Ethylhexyl)phthalate	mg/L	NA	NA	4.31E-03	ND				ND					ND				
VOLATILE ORGANIC COMPOUNDS																		
1,1,2,2-Tetrachloroethane	mg/L	NA	NA	2.03E-04	ND				ND					ND				
1,1,2-Trichloroethane	mg/L	NA	NA	7.15E-04	ND				ND					ND				
Acetone	mg/L	NA	NA	1.56E-01	ND				5.40E+00	J			YES	1.90E-03	J			
Carbon tetrachloride	mg/L	NA	NA	4.08E-04	ND				ND					ND				
Chloroform	mg/L	NA	NA	1.15E-03	3.10E-04	J			ND					3.10E-04	J			
Cis-1,2-Dichloroethene	mg/L	NA	NA	1.55E-02	ND				3.00E-04	J				2.20E-04	J			
Methylene chloride	mg/L	NA	NA	7.85E-03	3.20E-04	B			ND					2.30E-04	B			
Tetrachloroethene	mg/L	NA	NA	1.26E-03	ND				ND					ND				
Toluene	mg/L	NA	NA	2.59E-01	ND				ND					ND				
Trichloroethene	mg/L	NA	NA	4.51E-03	ND				1.80E-03					ND				

Table 2-7

Groundwater Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date					CWM-511 CWM-511-MW03 TP3003 29-Nov-01					CWM-512 CWM-512-MW01 TPP3001 28-Nov-01					CWM-513 CWM-513-MW01 TR3001 5-Dec-01				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/L	9.60E+00	2.34E+00	1.56E+00	ND					ND					9.44E-02	J			
Arsenic	mg/L	2.24E-01	1.78E-02	4.40E-05	ND					ND					ND				
Barium	mg/L	4.01E-01	1.27E-01	1.10E-01	1.62E-01			YES	YES	6.14E-02					5.92E-02				
Cadmium	mg/L	5.30E-03	2.51E-03	7.82E-04	ND					ND					ND				
Calcium	mg/L	4.52E+02	5.65E+01	NA	3.61E+01					6.75E+01			YES		7.24E+01			YES	
Chromium	mg/L	NA	NA	4.69E-03	ND					ND					ND				
Cobalt	mg/L	2.50E-02	2.34E-02	9.39E-02	ND					ND					ND				
Copper	mg/L	2.35E-01	2.55E-02	6.26E-02	ND					ND					ND				
Iron	mg/L	2.58E+01	7.04E+00	4.69E-01	1.32E-01	J				1.71E-01	J				5.01E-02	J			
Lead	mg/L	2.70E-02	8.00E-03	1.50E-02	ND					ND					ND				
Magnesium	mg/L	1.49E+02	2.13E+01	NA	4.57E+00	J				4.83E+00	J				4.92E+00				
Manganese	mg/L	5.82E+00	5.81E-01	7.35E-02	2.44E+00			YES	YES	7.43E-02	J			YES	3.68E-02	J			
Mercury	mg/L	NA	NA	4.69E-04	ND					1.98E-04	J				ND				
Nickel	mg/L	NA	NA	3.13E-02	ND					ND					ND				
Potassium	mg/L	6.85E+01	7.20E+00	NA	ND					8.85E-01	J				ND				
Selenium	mg/L	NA	NA	7.82E-03	ND					ND					ND				
Sodium	mg/L	6.47E+01	1.48E+01	NA	1.17E+01	J				6.60E+00	J				1.59E+00				
Thallium	mg/L	5.30E-03	1.46E-03	1.01E-04	ND					ND					ND				
Vanadium	mg/L	1.10E-02	1.70E-02	1.10E-02	ND					ND					ND				
Zinc	mg/L	1.16E+00	2.20E-01	4.69E-01	ND					ND					ND				
SEMIVOLATILE ORGANIC COMPOUNDS																			
Bis(2-Ethylhexyl)phthalate	mg/L	NA	NA	4.31E-03	ND					ND					ND				
VOLATILE ORGANIC COMPOUNDS																			
1,1,2,2-Tetrachloroethane	mg/L	NA	NA	2.03E-04	ND					1.60E-03				YES	ND				
1,1,2-Trichloroethane	mg/L	NA	NA	7.15E-04	ND					ND					ND				
Acetone	mg/L	NA	NA	1.56E-01	3.40E-03	J				ND					ND				
Carbon tetrachloride	mg/L	NA	NA	4.08E-04	ND					ND					ND				
Chloroform	mg/L	NA	NA	1.15E-03	ND					1.20E-03	B			YES	5.50E-04	B			
Cis-1,2-Dichloroethene	mg/L	NA	NA	1.55E-02	1.20E-03					ND					ND				
Methylene chloride	mg/L	NA	NA	7.85E-03	2.40E-04	B				5.80E-04	B				1.20E-03	B			
Tetrachloroethene	mg/L	NA	NA	1.26E-03	ND					ND					ND				
Toluene	mg/L	NA	NA	2.59E-01	2.20E-04	J				ND					ND				
Trichloroethene	mg/L	NA	NA	4.51E-03	1.40E-03					1.20E-02				YES	ND				

Table 2-7

Groundwater Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date					CWM-513 CWM-513-MW02 TR3002 6-Dec-01					CWM-514 CWM-514-MW01 TT3001 5-Feb-02					CWM-514 CWM-514-MW02 TT3002 8-Feb-02				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/L	9.60E+00	2.34E+00	1.56E+00	5.64E-02	J				2.00E-01					6.48E-02	J			
Arsenic	mg/L	2.24E-01	1.78E-02	4.40E-05	4.51E-03	B			YES	1.81E-03	J			YES	ND				
Barium	mg/L	4.01E-01	1.27E-01	1.10E-01	7.89E-02					3.82E-02					3.62E-02				
Cadmium	mg/L	5.30E-03	2.51E-03	7.82E-04	ND					ND					ND				
Calcium	mg/L	4.52E+02	5.65E+01	NA	6.51E+01			YES		8.85E+01			YES		9.37E+01	J		YES	
Chromium	mg/L	NA	NA	4.69E-03	ND					ND					ND				
Cobalt	mg/L	2.50E-02	2.34E-02	9.39E-02	ND					1.46E-02	J				ND				
Copper	mg/L	2.35E-01	2.55E-02	6.26E-02	ND					ND					ND				
Iron	mg/L	2.58E+01	7.04E+00	4.69E-01	6.63E-02	J				6.62E+00				YES	1.29E-01	J			
Lead	mg/L	2.70E-02	8.00E-03	1.50E-02	ND					ND					ND				
Magnesium	mg/L	1.49E+02	2.13E+01	NA	3.39E+00					4.43E+00					3.78E+00				
Manganese	mg/L	5.82E+00	5.81E-01	7.35E-02	8.10E-02	J			YES	1.49E+00			YES	YES	1.71E-01				YES
Mercury	mg/L	NA	NA	4.69E-04	ND					ND					ND				
Nickel	mg/L	NA	NA	3.13E-02	ND					ND					ND				
Potassium	mg/L	6.85E+01	7.20E+00	NA	ND					7.14E+00					3.52E+00	J			
Selenium	mg/L	NA	NA	7.82E-03	ND					ND					ND				
Sodium	mg/L	6.47E+01	1.48E+01	NA	1.60E+00					1.21E+01					3.78E+00				
Thallium	mg/L	5.30E-03	1.46E-03	1.01E-04	ND					ND					ND				
Vanadium	mg/L	1.10E-02	1.70E-02	1.10E-02	ND					ND					ND				
Zinc	mg/L	1.16E+00	2.20E-01	4.69E-01	ND					ND					ND				
SEMIVOLATILE ORGANIC COMPOUNDS																			
Bis(2-Ethylhexyl)phthalate	mg/L	NA	NA	4.31E-03	ND					7.70E-02				YES	ND				
VOLATILE ORGANIC COMPOUNDS																			
1,1,2,2-Tetrachloroethane	mg/L	NA	NA	2.03E-04	ND					ND					1.70E-03				YES
1,1,2-Trichloroethane	mg/L	NA	NA	7.15E-04	ND					ND					ND				
Acetone	mg/L	NA	NA	1.56E-01	ND					2.40E+00	J			YES	ND				
Carbon tetrachloride	mg/L	NA	NA	4.08E-04	ND					ND					ND				
Chloroform	mg/L	NA	NA	1.15E-03	ND					6.50E-04	J				ND				
Cis-1,2-Dichloroethene	mg/L	NA	NA	1.55E-02	ND					ND					ND				
Methylene chloride	mg/L	NA	NA	7.85E-03	9.30E-04	B				9.50E-04	B				ND				
Tetrachloroethene	mg/L	NA	NA	1.26E-03	ND					ND					ND				
Toluene	mg/L	NA	NA	2.59E-01	ND					2.20E-04	J				ND				
Trichloroethene	mg/L	NA	NA	4.51E-03	ND					ND					9.20E-04	J			

Table 2-7

Groundwater Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date					CWM-514 CWM-514-MW03 TT3003 7-Feb-02					CWM-516 CWM-516-MW01 TRR3001 11-Dec-01					CWM-516 CWM-516-MW02 TRR3002 7-Dec-01				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/L	9.60E+00	2.34E+00	1.56E+00	6.68E-02	J				ND					ND				
Arsenic	mg/L	2.24E-01	1.78E-02	4.40E-05	ND					ND					ND				
Barium	mg/L	4.01E-01	1.27E-01	1.10E-01	9.64E-03	J				3.19E-02					4.51E-02				
Cadmium	mg/L	5.30E-03	2.51E-03	7.82E-04	ND					ND					ND				
Calcium	mg/L	4.52E+02	5.65E+01	NA	3.75E+00	J				3.61E+01					2.84E+01				
Chromium	mg/L	NA	NA	4.69E-03	ND					ND					ND				
Cobalt	mg/L	2.50E-02	2.34E-02	9.39E-02	ND					ND					ND				
Copper	mg/L	2.35E-01	2.55E-02	6.26E-02	ND					ND					ND				
Iron	mg/L	2.58E+01	7.04E+00	4.69E-01	5.68E-02	J				9.37E-02	J				3.41E-02	B			
Lead	mg/L	2.70E-02	8.00E-03	1.50E-02	ND					ND					ND				
Magnesium	mg/L	1.49E+02	2.13E+01	NA	4.35E-01	J				5.46E+00					4.51E+00				
Manganese	mg/L	5.82E+00	5.81E-01	7.35E-02	2.09E-01				YES	6.68E-01			YES	YES	4.56E-02	J			
Mercury	mg/L	NA	NA	4.69E-04	ND					1.67E-04	B				ND				
Nickel	mg/L	NA	NA	3.13E-02	ND					3.34E-02				YES	ND				
Potassium	mg/L	6.85E+01	7.20E+00	NA	2.14E+00	J				ND					9.26E-01	J			
Selenium	mg/L	NA	NA	7.82E-03	ND					ND					ND				
Sodium	mg/L	6.47E+01	1.48E+01	NA	1.44E+00					4.33E+00	B				2.09E+00				
Thallium	mg/L	5.30E-03	1.46E-03	1.01E-04	ND					ND					ND				
Vanadium	mg/L	1.10E-02	1.70E-02	1.10E-02	ND					ND					ND				
Zinc	mg/L	1.16E+00	2.20E-01	4.69E-01	ND					ND					ND				
SEMIVOLATILE ORGANIC COMPOUNDS																			
Bis(2-Ethylhexyl)phthalate	mg/L	NA	NA	4.31E-03	4.50E-02				YES	ND					ND				
VOLATILE ORGANIC COMPOUNDS																			
1,1,2,2-Tetrachloroethane	mg/L	NA	NA	2.03E-04	2.90E-01				YES	ND					ND				
1,1,2-Trichloroethane	mg/L	NA	NA	7.15E-04	1.00E-03				YES	ND					ND				
Acetone	mg/L	NA	NA	1.56E-01	4.20E-03	J				ND					ND				
Carbon tetrachloride	mg/L	NA	NA	4.08E-04	ND					ND					ND				
Chloroform	mg/L	NA	NA	1.15E-03	1.40E-03				YES	ND					4.00E-03				YES
Cis-1,2-Dichloroethene	mg/L	NA	NA	1.55E-02	ND					ND					ND				
Methylene chloride	mg/L	NA	NA	7.85E-03	ND					6.40E-04	B				ND				
Tetrachloroethene	mg/L	NA	NA	1.26E-03	1.80E-03				YES	ND					ND				
Toluene	mg/L	NA	NA	2.59E-01	ND					ND					ND				
Trichloroethene	mg/L	NA	NA	4.51E-03	1.00E-01				YES	2.80E-04	J				1.10E-03				

Table 2-7

Groundwater Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date					HR-232QX HR-232QX-MW04 ECC3004 17-Apr-01					HR-232QX HR-232QX-MW05 ECC3005 1-May-01					HR-232QX HR-232QX-MW10 ECC3010 25-Apr-01				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/L	9.60E+00	2.34E+00	1.56E+00	3.01E-01	B				1.10E-02	J				1.15E-01	J			
Arsenic	mg/L	2.24E-01	1.78E-02	4.40E-05	ND					ND					ND				
Barium	mg/L	4.01E-01	1.27E-01	1.10E-01	4.41E-02					5.50E-02					1.77E-02	B			
Cadmium	mg/L	5.30E-03	2.51E-03	7.82E-04	ND					ND					7.71E-03	B	YES	YES	YES
Calcium	mg/L	4.52E+02	5.65E+01	NA	4.47E+01					1.74E+01					3.10E+00	B			
Chromium	mg/L	NA	NA	4.69E-03	ND					ND					ND				
Cobalt	mg/L	2.50E-02	2.34E-02	9.39E-02	ND					ND					9.79E-03	J			
Copper	mg/L	2.35E-01	2.55E-02	6.26E-02	ND					ND					3.20E-03	B			
Iron	mg/L	2.58E+01	7.04E+00	4.69E-01	3.51E-01					2.61E-01					1.75E+00	J			YES
Lead	mg/L	2.70E-02	8.00E-03	1.50E-02	ND					ND					ND				
Magnesium	mg/L	1.49E+02	2.13E+01	NA	7.24E+00					5.81E+00					1.67E+00	B			
Manganese	mg/L	5.82E+00	5.81E-01	7.35E-02	6.50E-03	J				3.90E-01				YES	3.02E-02	B			
Mercury	mg/L	NA	NA	4.69E-04	ND					ND					ND				
Nickel	mg/L	NA	NA	3.13E-02	ND					ND					2.03E-02	B			
Potassium	mg/L	6.85E+01	7.20E+00	NA	ND					3.25E+00	J				ND				
Selenium	mg/L	NA	NA	7.82E-03	ND					2.33E-03	J				ND				
Sodium	mg/L	6.47E+01	1.48E+01	NA	8.70E-01	J				6.13E+00					1.06E+00				
Thallium	mg/L	5.30E-03	1.46E-03	1.01E-04	ND					ND					ND				
Vanadium	mg/L	1.10E-02	1.70E-02	1.10E-02	ND					ND					ND				
Zinc	mg/L	1.16E+00	2.20E-01	4.69E-01	7.31E-03	B				ND					3.86E-02	B			
SEMIVOLATILE ORGANIC COMPOUNDS																			
Bis(2-Ethylhexyl)phthalate	mg/L	NA	NA	4.31E-03	ND					ND					ND				
VOLATILE ORGANIC COMPOUNDS																			
1,1,2,2-Tetrachloroethane	mg/L	NA	NA	2.03E-04	ND					ND					ND				
1,1,2-Trichloroethane	mg/L	NA	NA	7.15E-04	ND					ND					ND				
Acetone	mg/L	NA	NA	1.56E-01	ND					ND					ND				
Carbon tetrachloride	mg/L	NA	NA	4.08E-04	ND					ND					ND				
Chloroform	mg/L	NA	NA	1.15E-03	4.20E-03	J			YES	ND					ND				
Cis-1,2-Dichloroethene	mg/L	NA	NA	1.55E-02	ND					ND					ND				
Methylene chloride	mg/L	NA	NA	7.85E-03	ND					ND					ND				
Tetrachloroethene	mg/L	NA	NA	1.26E-03	ND					ND					ND				
Toluene	mg/L	NA	NA	2.59E-01	ND					ND					ND				
Trichloroethene	mg/L	NA	NA	4.51E-03	ND					ND					ND				

Table 2-7

Groundwater Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date					HR-232QX HR-232QX-MW19 ECC3019 26-Apr-01				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL
METALS									
Aluminum	mg/L	9.60E+00	2.34E+00	1.56E+00	3.01E-01	J			
Arsenic	mg/L	2.24E-01	1.78E-02	4.40E-05	ND				
Barium	mg/L	4.01E-01	1.27E-01	1.10E-01	6.80E-02				
Cadmium	mg/L	5.30E-03	2.51E-03	7.82E-04	ND				
Calcium	mg/L	4.52E+02	5.65E+01	NA	3.37E+01				
Chromium	mg/L	NA	NA	4.69E-03	ND				
Cobalt	mg/L	2.50E-02	2.34E-02	9.39E-02	ND				
Copper	mg/L	2.35E-01	2.55E-02	6.26E-02	ND				
Iron	mg/L	2.58E+01	7.04E+00	4.69E-01	3.76E-01	J			
Lead	mg/L	2.70E-02	8.00E-03	1.50E-02	ND				
Magnesium	mg/L	1.49E+02	2.13E+01	NA	6.48E+00				
Manganese	mg/L	5.82E+00	5.81E-01	7.35E-02	6.20E-02	B			
Mercury	mg/L	NA	NA	4.69E-04	ND				
Nickel	mg/L	NA	NA	3.13E-02	1.00E-02	B			
Potassium	mg/L	6.85E+01	7.20E+00	NA	ND				
Selenium	mg/L	NA	NA	7.82E-03	ND				
Sodium	mg/L	6.47E+01	1.48E+01	NA	1.88E+00				
Thallium	mg/L	5.30E-03	1.46E-03	1.01E-04	ND				
Vanadium	mg/L	1.10E-02	1.70E-02	1.10E-02	ND				
Zinc	mg/L	1.16E+00	2.20E-01	4.69E-01	2.67E-02	B			
SEMIVOLATILE ORGANIC COMPOUNDS									
Bis(2-Ethylhexyl)phthalate	mg/L	NA	NA	4.31E-03	ND				
VOLATILE ORGANIC COMPOUNDS									
1,1,2,2-Tetrachloroethane	mg/L	NA	NA	2.03E-04	ND				
1,1,2-Trichloroethane	mg/L	NA	NA	7.15E-04	ND				
Acetone	mg/L	NA	NA	1.56E-01	ND				
Carbon tetrachloride	mg/L	NA	NA	4.08E-04	ND				
Chloroform	mg/L	NA	NA	1.15E-03	1.00E-03	J			
Cis-1,2-Dichloroethene	mg/L	NA	NA	1.55E-02	ND				
Methylene chloride	mg/L	NA	NA	7.85E-03	ND				
Tetrachloroethene	mg/L	NA	NA	1.26E-03	ND				
Toluene	mg/L	NA	NA	2.59E-01	1.40E-03	J			
Trichloroethene	mg/L	NA	NA	4.51E-03	ND				

Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods.

[a] UBR - Upper background range as given in Science Applications International Corporation (SAIC), 1998, *Final Background Metals Survey Report, Fort McClellan, Alabama*, July.

[b] BKG - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in SAIC, 1998.

[c] Residential human health site-specific screening level (SSSL) as given in IT Corporation (2000), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama*, July.

B - Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero).

J - Compound was positively identified; reported value is an estimated concentration.

mg/L - Milligrams per liter.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 2-8

Surface Water Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date						CWM-182 CWM-182-SW/SD01 TE2001 20-Feb-02						CWM-511 CWM-511-SW/SD03 TP2003 18-Feb-02					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02	3.95E-01					YES	ND					
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03	2.92E-02					YES	6.77E-02					YES
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02	2.11E+00						8.22E+00					
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00	2.97E-01	J					4.01E-01	J				
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01	8.09E-01	J					1.72E+00					
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02	3.57E-02	J					2.56E-01					YES
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05	ND						2.90E-04	J				YES
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02	1.36E+00						1.06E+00					
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01	9.00E-03	J					ND					
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00	2.20E-04	B					ND					

Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods.

[a] UBR - Upper background range as given in Science Applications International Corporation (SAIC), 1998, *Final Background Metals Survey Report, Fort McClellan, Alabama* , July.

[b] BKG - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in SAIC, 1998.

[c] Recreational site user site-specific screening level (SSSL) and ecological screening value (ESV) as given in IT Corporation (2000), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County* , *Alabama,* July.

B - Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero).

J - Compound was positively identified; reported value is an estimated concentration.

mg/L - Milligrams per liter.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 2-9

Sediment Analytical Results
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel						CWM-182						CWM-511					
Sample Location						CWM-182-SW/SD01						CWM-511-SW/SD03					
Sample Number						TE1001						TP1003					
Sample Date						20-Feb-02						18-Feb-02					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA	2.66E+03	J					1.96E+03					
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00	4.81E+00						4.02E+00					
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA	9.78E+00						7.10E+01					
Cadmium	mg/kg	2.40E+00	4.30E-01	1.71E+02	1.00E+00	ND						8.17E-01	J		YES		
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA	6.45E+01	J					3.93E+02					
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01	1.56E+01						1.08E+01					
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01	1.37E+00	J					2.68E+00					
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01	2.84E+01	J		YES		YES	1.20E+01					
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA	1.43E+04						1.02E+04					
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	7.10E+00						8.34E+00					
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA	7.20E+01	J					1.63E+02					
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA	8.58E+01						6.27E+02					
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01	2.19E+00	J					3.00E+00					
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA	1.46E+02	J					1.09E+02	J				
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA	3.74E+01	J					4.54E+01	J				
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA	1.72E+01						1.23E+01					
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02	2.33E+01						4.62E+01					
SEMIVOLATILE ORGANIC COMPOUNDS																	
Benzo(a)anthracene	mg/kg	NA	NA	8.93E+01	3.30E-01	ND						9.90E-02	J				
Benzo(a)pyrene	mg/kg	NA	NA	8.93E+00	3.30E-01	ND						1.50E-01	J				
Benzo(b)fluoranthene	mg/kg	NA	NA	8.93E+01	6.55E-01	ND						2.30E-01	J				
Benzo(ghi)perylene	mg/kg	NA	NA	2.79E+04	6.55E-01	ND						1.40E-01	J				
Benzo(k)fluoranthene	mg/kg	NA	NA	8.93E+02	6.55E-01	ND						7.90E-02	J				
Chrysene	mg/kg	NA	NA	9.79E+03	3.30E-01	ND						1.20E-01	J				
Fluoranthene	mg/kg	NA	NA	3.73E+04	3.30E-01	ND						1.30E-01	J				
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	8.93E+01	6.55E-01	ND						1.30E-01	J				
Pyrene	mg/kg	NA	NA	3.06E+04	3.30E-01	ND						1.20E-01	J				
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	1.62E+01						2.25E+01					
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	1.00E-02	J					4.20E-02	B				

Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods.

[a] UBR - Upper background range as given in Science Applications International Corporation (SAIC), 1998, *Final Background Metals Survey Report, Fort McClellan, Alabama* , July.

[b] BKG - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in SAIC, 1998.

[c] Recreational site user site-specific screening level (SSSL) and ecological screening value (ESV) as given in IT Corporation (2000), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County , Alabama,* July.

B - Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero).

J - Compound was positively identified; reported value is an estimated concentration.

mg/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 3-1

Summary of Data Quality Objectives
Training Area T-5, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Remedial Investigation
Fort McClellan, Calhoun County, Alabama

Users	Available Data	Conceptual Site Model	Media of Concern	Data Uses and Objectives	Data Types	Analytical Level	Data Quantity
EPA, ADEM USACE, DOD FTMC, IT Corporation Other contractors, and possible future land users	SI and RI by SAIC; SI by IT; CWM EE/CA by Parsons	Contaminant Source Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7) (possible volatiles, semivolatiles, and metals) Migration Pathways Rain runoff and erosion to surface soil, infiltration and leaching to subsurface soil and groundwater, dust emissions and volatilization to ambient air, and biotransfer to venison, groundwater discharge to surface water, and surface water and erosion to sediment. Potential Receptors Recreational site user (current and future) Groundskeeper (current and future) Resident (future) Construction Worker (future) PSSC VOCs, SVOCs, and metals	Surface soil Subsurface Soil Groundwater Surface Water Sediment Depositional soil	RI to delineate vertical and horizontal extent of contamination in site media Definitive quality data for future decision-making	Surface soil TAL Metals, TCL VOCs, TCL SVOCs, and Chemical Agent Breakdown Products	Definitive data in data packages (as defined in USACE EM200-1-6)	11 surface soil samples + QC
					Subsurface Soil TAL Metals, TCL VOCs, TCL SVOCs, and Chemical Agent Breakdown Products	Definitive data in data packages (as defined in USACE EM200-1-6)	11 subsurface soil samples + QC
					Ground Water TAL Metals, TCL VOCs, TCL SVOCs, and Chemical Agent Breakdown Products	Definitive data in data packages (as defined in USACE EM200-1-6)	48 groundwater samples + QC
					Surface Water TAL Metals, TCL VOCs, TCL SVOCs, and Chemical Agent Breakdown Products	Definitive data in data packages (as defined in USACE EM200-1-6)	1 surface water samples + QC
					Sediment TAL Metals, TCL VOCs, TCL SVOCs, and Chemical Agent Breakdown Products TOC and Grain Size	Definitive data in data packages (as defined in USACE EM200-1-6)	1 sediment samples + QC
					Depositional Soil TAL Metals, TCL VOCs, TCL SVOCs, and Chemical Agent Breakdown Products TOC and Grain Size	Definitive data in data packages (as defined in USACE EM200-1-6)	10 depositional soil samples + QC

ADEM - Alabama Department of Environmental Management.
DOD - U.S. Department of Defense.
EPA - U.S. Environmental Protection Agency.
FTMC - Fort McClellan.
EE/CA - Engineering evaluation/cost analysis
USACE - U.S. Army Corps of Engineers.
VOCs - volatile organic compounds.
SVOCs - semivolatile organic compounds.
SAIC - Science Application International Corporation

SI - Site investigation.
RI - Remedial Investigation
QC - Quality control.
TAL - Target analyte list.
TCL - Target compound list.
TOC - Total organic carbon.
PSSC - Potential site-specific chemical.
EM200-1-6 - USACE Engineering Manual, *Chemical Quality Assurance for HTRW Projects*, October 10, 1997.

Table 4-1

Proposed Sampling Locations and Rationale
RI at Training Area T-5 Sites
Parcel 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Number	Sample Location	Sample Media	Sample Location Rationale
180	CWM-180-MW01	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-180-MW02	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-180-MW03	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-180-MW04	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-180-MW05	Groundwater	Permanent bedrock monitoring well to be located adjacent to CWM-180-MW04. Groundwater sample data will be used to define the horizontal and vertical extent of contamination in the area. The monitoring well will provide information on onsite-specific geology, groundwater flow direction and groundwater quality in the bedrock saturated zone. The estimated well completion depth is approximately 75 feet below ground surface (bgs) and will be doubled cased to approximately 35 feet bgs.
	CWM-180-MW06	Surface soil, subsurface soil, and groundwater	Soil boring for surface soil and subsurface soil samples and permanent residuum monitoring well for groundwater sample to be located downslope approximately 175 feet north of Parcel 180(7), adjacent to Rucker Street, as part of a well pair. Groundwater sample data will be used to define the horizontal extent of contamination in the area. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes. The monitoring well will provide information on groundwater flow direction and groundwater quality in the residuum saturated zone. The estimated well completion depth is approximately 30 feet bgs.
	CWM-180-MW07	Groundwater	Permanent bedrock monitoring well to be located downslope approximately 175 feet north of Parcel 180(7), adjacent to Rucker Street, as part of a well pair. Groundwater sample data will be used to define the horizontal and vertical extent of contamination in the area. The monitoring well will provide information on onsite-specific geology, groundwater flow direction and groundwater quality in the bedrock saturated zone. The estimated well completion depth is approximately 75 feet below ground surface (bgs) and will be doubled cased to approximately 35 feet bgs.
	CWM-180-MW08	Surface soil, subsurface soil, and groundwater	Soil boring for surface soil and subsurface soil samples and permanent residuum monitoring well for groundwater sample to be located downslope approximately 75 feet northwest of Parcel 180(7). Groundwater sample data will be used to define the horizontal extent of contamination in the area. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes. The monitoring well will provide information on groundwater flow direction and groundwater quality in the residuum saturated zone. The estimated well completion depth is approximately 30 feet bgs.
	CWM -180-DEP01	Depositional soil	Sample location is north of Parcel 180(7) in the intermittent stream that flows northeast toward Rucker Street. Sample data will indicate if contaminant releases have occurred from runoff from upslope of Parcel 180(7). Sample data will also be used to assess potential impacts to terrestrial biota that may utilize the location for food and/or habitat purposes.
182	CWM-182-MW01	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-182-MW02	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-182-MW03	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-182-MW04	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-182-MW05	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-182-MW06	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-182-MW07	Groundwater	Permanent bedrock monitoring well to be located adjacent to CWM-182-MW02. Groundwater sample data will be used to define the horizontal and vertical extent of contamination in the area. The monitoring well will provide information on onsite-specific geology, groundwater flow direction and groundwater quality in the bedrock saturated zone. The estimated well completion depth is approximately 75 feet bgs and will be doubled cased to approximately 50 feet bgs.
	CWM-182-MW08	Surface soil, subsurface soil, and groundwater	Soil boring for surface soil and subsurface soil samples and permanent residuum monitoring well for groundwater sample to be located upslope near the center of the southern boundary of Parcel 182(7). Groundwater sample data will be used to define the horizontal extent of contamination in the area. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes. The monitoring well will provide information on groundwater flow direction and groundwater quality in the residuum saturated zone. The estimated well completion depth is approximately 30 feet bgs.
	CWM-182-MW09	Surface soil, subsurface soil, and groundwater	Soil boring for surface soil and subsurface soil samples and permanent residuum monitoring well for groundwater sample to be located as part of a well pair, approximately 100 feet northeast and downslope of CWM-182-MW02, in the southeastern area of Parcel 182(7). Groundwater sample data will be used to define the horizontal extent of contamination in the area. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes. The monitoring well will provide information on groundwater flow direction and groundwater quality in the residuum saturated zone. The estimated well completion depth is approximately 30 feet bgs.

Table 4-1

Proposed Sampling Locations and Rationale
RI at Training Area T-5 Sites
Parcel 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Number	Sample Location	Sample Media	Sample Location Rationale
182	CWM-182-MW10	Groundwater	Permanent bedrock monitoring well to be located downslope as part of a well pair approximately 100 feet northeast of CWM-182-MW02 in the southeastern area of Parcel 182(7). Groundwater sample data will be used to define the horizontal and vertical extent of contamination in the area. The monitoring well will provide information on onsite-specific geology, groundwater flow direction and groundwater quality in the bedrock saturated zone. The estimated well completion depth is approximately 85 feet below ground surface (bgs) and will be doubled cased to approximately 50 feet bgs.
	CWM-182-MW11	Groundwater	Permanent bedrock monitoring well to be located adjacent to CWM-182-MW03. Groundwater sample data will be used to define the horizontal and vertical extent of contamination in the area. The monitoring well will provide information on onsite-specific geology, groundwater flow direction and groundwater quality in the bedrock saturated zone. The estimated well completion depth is approximately 85 feet below ground surface (bgs) and will be double cased to approximately 50 feet bgs.
	CWM-182-SW/SD02	Surface water and sediment	Sample location is in the intermittent stream that flows north along the eastern boundary of the parcel. Sample data will indicate if contaminant releases have occurred from runoff from upgradient in the parcel. Sample data will also be used to assess potential impacts to aquatic biota in the stream and other ecological receptors that may utilize that stream for food and/or habitat purposes.
	CWM -182-DEP06	Depositional soil	Sample location in the drainage swale that flows east to CWM-182-MW02 in the southern area of Parcel 182(7). Sample data will indicate if contaminant releases have occurred from runoff from upgradient in the parcel. Sample data will also be used to assess potential impacts to terrestrial biota that may utilize the location for food and/or habitat purposes.
	CWM -182-DEP07	Depositional soil	Sample location is in the manmade surface drainage feature that flows north across Parcel 516(7) at the north end of Parcel 182(7). Sample data will indicate if contaminant releases have occurred from runoff from upgradient in the parcel. Sample data will also be used to assess potential impacts to terrestrial biota that may utilize the location for food and/or habitat purposes
	CWM-182-DEP08	Depositional soil	Proposed sample location is approximately 200 feet west of existing location CWM-182-DEP03. Sample location is in the manmade surface drainage feature that flows north across Parcel 516(7) at the north end of Parcel 182(7). Sample data will indicate if contaminant releases have occurred from runoff from upgradient in the parcel. Sample data will also be used to assess potential impacts to terrestrial biota that may utilize the location for food and/or habitat purposes.
	CWM-182-DEP09	Depositional soil	Proposed sample location is approximately 200 feet southwest of existing location CWM-182-DEP04. Sample location is in the manmade surface drainage feature that flows north across Parcel 516(7) at the north end of Parcel 182(7). Sample data will indicate if contaminant releases have occurred from runoff from upgradient in the parcel. Sample data will also be used to assess potential impacts to terrestrial biota that may utilize the location for food and/or habitat purposes.
	CWM-182-DEP10	Depositional soil	Proposed sample location is approximately 200 feet southwest of existing location CWM-182-DEP01. Sample location is in the manmade surface drainage feature that flows north across Parcel 516(7) at the north end of Parcel 182(7). Sample data will indicate if contaminant releases have occurred from runoff from upgradient in the parcel. Sample data will also be used to assess potential impacts to terrestrial biota that may utilize the location for food and/or habitat purposes.
511	CWM-511-MW01	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-511-MW02	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-511-MW03	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-511-MW04	Surface soil, subsurface soil, and groundwater	Soil boring for surface soil and subsurface soil samples and permanent residuum monitoring well for groundwater sample to be located as part of a well pair approximately 100 feet north and downslope of CWM-512-MW01. Groundwater sample data will be used to define the horizontal extent of contamination in the area. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes. The monitoring well will provide information on groundwater flow direction and groundwater quality in the residuum saturated zone. The estimated well completion depth is approximately 30 feet bgs.
	CWM-511-MW05	Groundwater	Permanent bedrock monitoring well to be located downslope as part of a well pair, approximately 100 feet north of CWM-512-MW01, in the northwestern corner of Parcel 511(7). Groundwater sample data will be used to define the horizontal and vertical extent of contamination in the area. The monitoring well will provide information on onsite-specific geology, groundwater flow direction and groundwater quality in the bedrock saturated zone. The estimated well completion depth is approximately 65 feet below ground surface (bgs) and will be double cased to approximately 30 feet bgs.
	CWM-511-MW06	Surface soil, subsurface soil, and groundwater	Soil boring for surface soil and subsurface soil samples and permanent residuum monitoring well for groundwater sample to be located east of Parcel 512(7), on the west side of Reggie Avenue. Groundwater sample data will be used to define the horizontal extent of contamination in the area. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes. The monitoring well will provide information on groundwater flow direction and groundwater quality in the residuum saturated zone. The estimated well completion depth is approximately 30 feet bgs.
	CWM-511-DEP03	Depositional soil	Sample location is in the surface drainage feature that flows east along the northern edge of Parcel 511(7). Sample data will indicate if contaminant releases have occurred from runoff from upstream of the parcel. Sample data will also be used to assess potential impacts to terrestrial biota that may utilize the location for food and/or habitat purposes.
512	CWM-512-MW01	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-512-MW02	Groundwater	Permanent bedrock monitoring well to be located adjacent to CWM-512-MW01. Groundwater sample data will be used to define the horizontal and vertical extent of contamination in the area. The monitoring well will provide information on onsite-specific geology, groundwater flow direction and groundwater quality in the bedrock saturated zone. The estimated well completion depth is approximately 65 feet bgs and will be double cased to approximately 30 feet bgs.

Table 4-1

Proposed Sampling Locations and Rationale
RI at Training Area T-5 Sites
Parcel 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Number	Sample Location	Sample Media	Sample Location Rationale
512	CWM-512-MW03	Surface soil, subsurface soil, and groundwater	Soil boring for surface soil and subsurface soil samples and permanent residuum monitoring well for groundwater sample to be located approximately 100 feet south, southwest CWM-512-MW01. Groundwater sample data will be used to define the horizontal extent of contamination in the area. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes. The monitoring well will provide information on groundwater flow direction and groundwater quality in the residuum saturated zone. The estimated well completion depth is approximately 30 feet bgs.
	CWM-512-DEP01	Depositional soil	Sample location is in the surface drainage feature that flows north along the western edge of Parcel 512(7). Sample data will indicate if contaminant releases have occurred from runoff from upstream of the parcel. Sample data will also be used to assess potential impacts to terrestrial biota that may utilize the location for food and/or habitat purposes.
513	CWM-513-MW01	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-513-MW02	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
514	CWM-514-MW01	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-514-MW02	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-514-MW03	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	CWM-514-MW04	Groundwater	Permanent bedrock monitoring well to be located adjacent to CWM-514-MW03. Groundwater sample data will be used to define the horizontal and vertical extent of contamination in the area. The monitoring well will provide information on onsite-specific geology, groundwater flow direction and groundwater quality in the bedrock saturated zone. The estimated well completion depth is approximately 90 feet bgs and will be double cased to approximately 60 feet bgs.
	CWM-514-MW05	Surface soil, subsurface soil, and groundwater	Soil boring for surface soil and subsurface soil samples and permanent residuum monitoring well for groundwater sample to be located approximately 200 feet northwest and downslope of Parcel 514(7) as part of a well pair. Groundwater sample data will be used to define the horizontal extent of contamination in the area. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes. The monitoring well will provide information on groundwater flow direction and groundwater quality in the residuum saturated zone. The estimated well completion depth is approximately 30 feet bgs.
	CWM-514-MW06	Groundwater	Permanent bedrock monitoring well to be located approximately 200 feet northwest and downslope of Parcel 514(7) as part of a well pair. Groundwater sample data will be used to define the horizontal and vertical extent of contamination in the area. The monitoring well will provide information on onsite-specific geology, groundwater flow direction and groundwater quality in the bedrock saturated zone. The estimated well completion depth is approximately 75 bgs and will be double cased to approximately 40 feet bgs.
	CWM-514-MW07	Surface soil, subsurface soil, and groundwater	Soil boring for surface soil and subsurface soil samples and permanent residuum monitoring well for groundwater sample to be located approximately 175 feet north, northeast of Parcel 514(7) as part of a well pair. Well location will be in the southern area of Motor Pool 3100 parking lot. Groundwater sample data will be used to define the horizontal extent of contamination in the area. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes. The monitoring well will provide information on groundwater flow direction and groundwater quality in the residuum saturated zone. The estimated well completion depth is approximately 30 feet bgs.
	CWM-514-MW08	Groundwater	Permanent bedrock monitoring well to be located approximately 175 feet north, northeast of Parcel 514(7) as part of a well pair. Well location will be in the southern area of Motor Pool 3100 parking lot. Groundwater sample data will be used to define the horizontal and vertical extent of contamination in the area. The monitoring well will provide information on onsite-specific geology, groundwater flow direction and groundwater quality in the bedrock saturated zone. The estimated well completion depth is approximately 75 bgs and will be double cased to approximately 40 feet bgs.
	CWM-514-MW09	Surface soil, subsurface soil, and groundwater	Soil boring for surface soil and subsurface soil samples and permanent residuum monitoring well for groundwater sample to be located approximately 100 feet northeast of Parcel 514(7) as part of a well pair. Well location will be in the southern corner of Motor Pool 3100 parking lot. Groundwater sample data will be used to define the horizontal extent of contamination in the area. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes. The monitoring well will provide information on groundwater flow direction and groundwater quality in the residuum saturated zone. The estimated well completion depth is approximately 30 feet bgs.
	CWM-514-MW10	Groundwater	Permanent bedrock monitoring well to be located approximately 100 feet northeast of Parcel 514(7) as part of a well pair. Well location will be in the southern corner of Motor Pool 3100 parking lot. Groundwater sample data will be used to define the horizontal and vertical extent of contamination in the area. The monitoring well will provide information on onsite-specific geology, groundwater flow direction and groundwater quality in the bedrock saturated zone. The estimated well completion depth is approximately 75 bgs and will be double cased to approximately 40 feet bgs.
	CWM-514-MW11	Surface soil, subsurface soil, and groundwater	Soil boring for surface soil and subsurface soil samples and permanent residuum monitoring well for groundwater sample to be located approximately 60 feet west of Parcel 514(7). Groundwater sample data will be used to define the horizontal extent of contamination in the area. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes. The monitoring well will provide information on groundwater flow direction and groundwater quality in the residuum saturated zone. The estimated well completion depth is approximately 30 feet bgs.

Table 4-1

Proposed Sampling Locations and Rationale
RI at Training Area T-5 Sites
Parcel 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Parcel Number	Sample Location	Sample Media	Sample Location Rationale
514	CWM-514-DEP01	Depositional soil	Sample location is north of Parcel 514(7) in the surface drainage feature that flows southeast along the southwestern edge of Motor Pool 3100. Sample data will indicate if contaminant releases have occurred from runoff from upstream of the parcel. Sample data will also be used to assess potential impacts to terrestrial biota that may utilize the location for food and/or habitat purposes.
	CWM-514-DEP02	Depositional soil	Sample location is north of Parcel 514(7) in the surface drainage feature that flows southeast along the southwestern edge of Motor Pool 3100. Sample data will indicate if contaminant releases have occurred from runoff from upstream of the parcel. Sample data will also be used to assess potential impacts to terrestrial biota that may utilize the location for food and/or habitat purposes.
516	CWM-516-MW01	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in ground water samples and to provide sample data to support RI.
	CWM-516-MW02	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in ground water samples and to provide sample data to support RI.
232	HR-232QX-MW04	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	HR-232QX-MW05	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	HR-232QX-MW10	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	HR-232QX-MW18	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.
	HR-232QX-MW19	Groundwater	Groundwater sample will collected from existing monitoring well to provide sample data to assist in characterizing the groundwater contamination previously observed in groundwater samples and to provide sample data to support RI.

Table 4-2

Surface Soil and Subsurface Soil Sample Designations and Analytical Parameters
RI at Training Area T-5 Sites
Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	Sample Depth (ft)	QA/QC Samples		Analytical Suite
			Field Duplicates	MS/MSD	
CWM-180-MW06	CWM-180-MW06-SS-TK0011-REG	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
	CWM-180-MW06-DS-TK0012-REG	a			
CWM-180-MW08	CWM-180-MW08-SS-TK0013-REG	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
	CWM-180-MW08-DS-TK0014-REG	a	CWM-180-MW08-DS-TK0015-FD		
CWM-182-MW08	CWM-182-MW08-SS-TE0020-REG	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
	CWM-182-MW08-DS-TE0021-REG	a			
CWM-182-MW09	CWM-182-MW09-SS-TE0022-REG	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
	CWM-182-MW09-DS-TE0023-REG	a			
CWM-511-MW04	CWM-511-MW04-SS-TP0009-REG	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
	CWM-511-MW04-DS-TP0010-REG	a			
CWM-511-MW06	CWM-511-MW06-SS-TP0011-REG	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
	CWM-511-MW06-DS-TP0012-REG	a			
CWM-512-MW03	CWM-512-MW03-SS-TPP0004-REG	0-1	CWM-512-MW03-SS-TPP0005-FD		TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
	CWM-512-MW03-DS-TPP0006-REG	a			
CWM-514-MW05	CWM-514-MW05-SS-TT0008-REG	0-1		CWM-514-MW05-SS-TT0008-MS/MSD	TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
	CWM-514-MW05-DS-TT0009-REG	a			
CWM-514-MW07	CWM-514-MW07-SS-TT0010-REG	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
	CWM-514-MW07-DS-TT0011-REG	a			
CWM-514-MW09	CWM-514-MW09-SS-TT0012-REG	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
	CWM-514-MW09-DS-TT0013-REG	a			
CWM-514-MW11	CWM-514-MW11-SS-TT0014-REG	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
	CWM-514-MW11-DS-TT0015-REG	a			

[a] Actual sample depth selected for analysis will be at the discretion of the site geologist and will be based on field observation.

REG - Field sample.
FD - Field duplicate.
MS/MSD - Matrix spike/matrix spike duplicate.
QA/QC - Quality assurance/quality control.
VOC - Volatile organic compound.
SVOC - Semivolatile organic compound.
TAL - Target analyte list.
TCL - Target compound list.

Table 4-3

Groundwater Sample Designation and Analytical Parameters
RI at Training Area t-5 Sites
Parcels 180(7), 182(7), 511(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation[a]	QA/QC Samples		Analytical Suite
		Field Duplicates	MS/MSD	
CWM-180-MW01	CWM-180-MW01-GW-TK3006-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-180-MW02	CWM-180-MW02-GW-TK3007-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-180-MW03	CWM-180-MW03-GW-TK3008-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-180-MW04	CWM-180-MW04-GW-TK3009-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-180-MW05	CWM-180-MW05-GW-TK3010-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-180-MW06	CWM-180-MW06-GW-TK3011-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-180-MW07	CWM-180-MW07-GW-TK3012-REG		CWM-180-MW07-GW-TK3012-MS/MSD	TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-180-MW08	CWM-180-MW08-GW-TK3013-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-182-MW01	CWM-182-MW01-GW-TE3007-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-182-MW02	CWM-182-MW02-GW-TE3008-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-182-MW03	CWM-182-MW03-GW-TE3009-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-182-MW04	CWM-182-MW04-GW-TE3010-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.

Table 4-3

Groundwater Sample Designation and Analytical Parameters
RI at Training Area t-5 Sites
Parcels 180(7), 182(7), 511(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation[a]	QA/QC Samples		Analytical Suite
		Field Duplicates	MS/MSD	
CWM-182-MW05	CWM-182-MW05-GW-TE3011-REG		CWM-182-MW05-GW-TE3011-MS/MSD	TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-182-MW06	CWM-182-MW06-GW-TE3012-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-182-MW07	CWM-182-MW07-GW-TE3013-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-182-MW08	CWM-182-MW08-GW-TE3014-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-182-MW09	CWM-182-MW09-GW-TE3015-REG	CWM-182-MW09-GW-TE3016-FD		TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-182-MW10	CWM-182-MW10-GW-TE3017-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-182-MW11	CWM-182-MW11-GW-TE3018-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-511-MW01	CWM-511-MW01-GW-TP3004-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-511-MW02	CWM-511-MW02-GW-TP3005-REG		CWM-511-MW02-GW-TP3005-MS/MSD	TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-511-MW03	CWM-511-MW03-GW-TP3006-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-511-MW04	CWM-511-MW04-GW-TP3007-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-511-MW05	CWM-511-MW05-GW-TP3008-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.

Table 4-3

Groundwater Sample Designation and Analytical Parameters
RI at Training Area t-5 Sites
Parcels 180(7), 182(7), 511(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation[a]	QA/QC Samples		Analytical Suite
		Field Duplicates	MS/MSD	
CWM-511-MW06	CWM-511-MW06-GW-TP3009-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-512-MW01	CWM-512-MW01-GW-TPP3003-REG	CWM-512-MW01-GW-TPP3004-FD		TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-512-MW02	CWM-512-MW02-GW-TPP3005-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-512-MW03	CWM-512-MW03-GW-TPP3006-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-513-MW01	CWM-513-MW01-GW-TR3003-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-513-MW02	CWM-513-MW02-GW-TR3004-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-514-MW01	CWM-514-MW01-GW-TT3005-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-514-MW02	CWM-514-MW02-GW-TT3006-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-514-MW03	CWM-514-MW03-GW-TT3007-REG	CWM-514-MW03-GW-TT3008-FD		TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-514-MW04	CWM-514-MW04-GW-TT3009-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-514-MW05	CWM-514-MW05-GW-TT3010-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-514-MW06	CWM-514-MW06-GW-TT3011-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.

Table 4-3

Groundwater Sample Designation and Analytical Parameters
RI at Training Area t-5 Sites
Parcels 180(7), 182(7), 511(7), 513(7), 514(7), and 516(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation[a]	QA/QC Samples		Analytical Suite
		Field Duplicates	MS/MSD	
CWM-514-MW07	CWM-514-MW07-GW-TT3012-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-514-MW08	CWM-514-MW08-GW-TT3013-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-514-MW09	CWM-514-MW09-GW-TT3014-REG	CWM-514-MW09-GW-TT3015-FD		TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-514-MW10	CWM-514-MW10-GW-TT3016-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-514-MW11	CWM-514-MW11-GW-TT3017-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-516-MW01	CWM-516-MW01-GW-TRR3003-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
CWM-516-MW02	CWM-516-MW02-GW-TRR3004-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
HR-232QX-MW04	HR-232QX-MW04-GW-ECC3023-REG	HR-232QX-MW04-GW-ECC3024-FD		TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
HR-232QX-MW05	HR-232QX-MW05-GW-ECC3025-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
HR-232QX-MW10	HR-232QX-MW10-GW-ECC3026-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
HR-232QX-MW18	HR-232QX-MW18-GW-ECC3027-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.
HR-232QX-MW19	HR-232QX-MW19-GW-ECC3028-REG			TCL VOCs, TCL SVOCs, TCL Metals and Chemical Agent Breakdown Product.

[a] Groundwater samples will be collected from the approximate top 5 to 10 feet of the water column per Attachment 5 of the Installation-Wide Sampling and Analysis Plan (IT, 2002a).

CWM - Chemical warfare material.
FD - Field duplicate.
MS/MSD - Matrix spike/matrix spike duplicate.
QA/QC - Quality assurance/quality control.
REG - Field sample.
SVOCs - Semivolatile organic compounds.
TAL - Target analyte list.
TCL - Target compound list.
VOCs - Volatile organic compounds.

Table 4-4

Surface Water, Sediment, and Depositional Soil Sample Designations and Analytical Paramenters
Remedial Investigation
Training Area T-5, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)
Fort McClellan, Alabama

Sample Location	Sample Designation	Sample Matrix	Sample Depth (ft)	QA/QC Samples		Analytical Suite
				Field Duplicates	MS/MSD	
CWM-180-DEP01	CWM-180-DEP01-DEP-TK0016-REG	Depositional Soil	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
CWM-182-SW/SD02	CWM-182-SW/SD02-SW-TE2002-REG	Surface Water	N/A			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product. (TOC, Grain Size for sediment only)
	CWM-182-SW/SD02-SD-TE1002-REG	Sediment	0-0.5			
CWM-182-DEP06	CWM-182-DEP06-DEP-TE0024-REG	Depositional Soil	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
CWM-182-DEP07	CWM-182-DEP07-DEP-TE0025-REG	Depositional Soil	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
CWM-182-DEP08	CWM-182-DEP08-DEP-TE0026-REG	Depositional Soil	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
CWM-182-DEP09	CWM-182-DEP09-DEP-TE0027-REG	Depositional Soil	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
CWM-182-DEP10	CWM-182-DEP10-DEP-TE0028-REG	Depositional Soil	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
CWM-511-DEP03	CWM-511-DEP03-DEP-TP0013-REG	Depositional Soil	0-1		CWM-511-DEP03-DEP-TP0013-MS/MSD	TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
CWM-512-DEP01	CWM-512-DEP01-DEP-TPP0007-REG	Depositional Soil	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
CWM-514-DEP01	CWM-514-DEP01-DEP-TT0016-REG	Depositional Soil	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.
CWM-514-DEP02	CWM-514-DEP02-DEP-TT0017-REG	Depositional Soil	0-1			TCL VOCs, TCL SVOCs, TAL Metals, and Chemical Agent Breakdown Product.

MS/MSD - Matrix spike/matrix spike duplicate.
NA - Not applicable.
QA/QC - Quality assurance/quality control.
REG - Field sample.
FD - Field duplicate.
TAL - Target analyte list.
TCL - Target compound list
VOC - Volatile organic compound
SVOC - Semivolatile organic compound
TOC - Total organic carbon.

Table 4-5

Analytical Samples
Remedial Investigation
Training Area T-5 Sites, Parcels 180(7), 182(7), 511(7), 512(7), 513(7), 514(7), and 516(7)

Parameters	Analysis Method	Sample Matrix	TAT Needed	Field Samples: No. of Sample Points	Field Samples: No. of Events	Field Samples: No. of Field Samples	QA/QC Samples[a]: Field Dups (10%)	QA/QC Samples[a]: MS/MSD (5%)	QA/QC Samples[a]: Trip Blank (1/ship)	QA/QC Samples[a]: Eq. Rinse (1/wk/matrix)	EMAX Total No. Analysis
T-5 Sites: 49 water matrix samples (48 groundwater and 1 surface water); 33 soil matrix samples (11 surface soil, 11 subsurface soil, 1 sediment, and 10 depositional soil											
All samples will be analyzed for the following parameters:											
TCL VOCs	8260B	water	normal	49	1	49	5	3	20	5	85
TCL SVOCs	8270C	water	normal	49	1	49	5	3	0	5	65
TAL Metals	6010B/7000	water	normal	49	1	49	5	3	0	5	65
Chemical Agent Breakdown Products	8270M/8321	water	normal	49	1	49	5	3	0	5	65
								2			
TCL VOCs	8260B	soil	normal	33	1	33	2	2	0	2	41
TCL SVOCs	8270C	soil	normal	33	1	33	2	2	0	2	41
TAL Metals	6010B/7000	soil	normal	33	1	33	2	2	0	2	41
Chemical Agent Breakdown Products	8270M/8321	soil	normal	33	1	33	2	2	0	2	41
Sediment samples will be analyzed for the following parameters:											
Total Organic Carbon	9060	sediment	normal	1	1	1	0	0	0	0	3
Grain size	ASTM D421/D422	sediment	normal	1	1	1	0	0	0	0	3
				T-5 Sites Subtotal:		330	28	22	20	28	450

[a]Field duplicate, QA split, and MS/MSD samples were calculated as a percentage of the field samples collected per site and were rounded to the nearest whole number. Trip blank samples will be collected with water matrix samples for VOC analysis only. Assumed four field samples per day to estimate trip blanks. Equipment blanks will be collected once per event whenever sampling equipment is field decontaminated and re-used. They will be repeated weekly for sampling events that last more than 1 week. Assumed 20 field samples will be collected per week to estimate number of equipment blanks.

Eq. Rinse - Equipment rinsate sample
MS/MSD - Matrix spike/matrix spike duplicate.
QA/QC - Quality assurance/quality control.
SVOCs - Semivolatile organic compounds.
TAL - Target analyte list.
TAT - Turn-around time
TCL - Target compound list.
VOCs - Volatile organic compounds.

Ship samples to: EMAX Laboratories, Inc.
1835 205th Street
Torrance, CA 90501
Attn: Elizabeth McIntyre
Tel: 310-618-8889
Fax: 310-618-0818