

Table 5-1

Surface Soil Analytical Results
Ground Scar at South End of Confidence Course, Parcel 158(7)
Fort McClellan, Calhoun County, Alabama

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Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					GSBP-158 SI16-SS01 16-SS01A 8-May-98 0-1					GSBP-158 SI16-SS02 16-SS02A 8-May-98 0-1					GSBP-158 SI16-SS03 16-SS03 8-May-98 0-1				
Parameter	Units	BKG ^a	SSSL ^b	ESV ^b	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
METALS																			
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	1.55E+04			YES	YES	2.07E+04		YES	YES	YES	5.37E+03				YES
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	5.75E+00			YES		8.68E+00			YES		2.94E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	5.30E+01					4.13E+01					5.81E+01				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	3.65E-01					3.48E-01					3.40E-01				
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					ND					ND				
Calcium	mg/kg	1.72E+03	NA	NA	1.02E+03					1.31E+03					7.68E+02				
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	3.43E+01	J		YES	YES	2.83E+01	J		YES	YES	9.76E+00	J			YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	3.31E+00					2.61E+00					1.97E+00				
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	7.96E+00					1.59E+01		YES			5.70E+00				
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	2.65E+04			YES	YES	3.48E+04		YES	YES	YES	1.43E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	1.52E+01					1.63E+01					1.54E+01				
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	4.75E+02					5.22E+02					2.08E+02				
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	9.72E+01	J				1.13E+02	J			YES	2.96E+02	J			YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	9.06E-02		YES			6.86E-01		YES		YES	4.71E-02				
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	6.41E+00					8.71E+00					2.85E+00				
Potassium	mg/kg	8.00E+02	NA	NA	3.43E+02					4.57E+02					3.73E+02				
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	5.86E+01	B				4.46E+01	B				5.48E+01	B			
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	3.98E+01				YES	5.88E+01			YES	YES	1.75E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	1.64E+01					2.18E+01					8.44E+00				
VOLATILE ORGANIC COMPOUNDS																			
1,1,1-Trichloroethane	mg/kg	NA	1.55E+03	1.00E-01	8.10E-03					9.90E-03					5.30E-03				
1,2-Dichloroethene	mg/kg	NA	7.00E+01	1.00E-01	4.20E-04	J				ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	4.90E-03	J				3.80E-03	J				6.90E-03	J			
Acetone	mg/kg	NA	7.76E+02	2.50E+00	8.30E-02					7.00E-02					1.60E-01				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	8.30E-04	J				8.40E-04	J				5.40E-04	J			
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					2.60E-03	J			
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	3.60E-03	J				4.00E-03	J				2.60E-03	J			
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	ND					4.00E-03	J				2.40E-03	J			
Tetrachloroethene	mg/kg	NA	1.21E+01	1.00E-02	1.10E-02				YES	1.30E-02				YES	8.80E-03				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	2.40E-03	J				2.50E-03	J				1.90E-03	J			
Trichloroethene	mg/kg	NA	5.72E+01	1.00E-03	2.40E-03	J			YES	2.70E-03	J			YES	1.60E-03	J			YES
Xylene, Total	mg/kg	NA	1.55E+04	5.00E-02	1.70E-02					2.10E-02					1.30E-02				

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Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					GSBP-158 SI16-SS01 16-SS01A 8-May-98 0-1					GSBP-158 SI16-SS02 16-SS02A 8-May-98 0-1					GSBP-158 SI16-SS03 16-SS03 8-May-98 0-1				
Parameter	Units	BKG ^a	SSSL ^b	ESV ^b	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																			
Acenaphthylene	mg/kg	NA	4.63E+02	6.82E+02	ND					ND					ND				
Benzo(a)anthracene	mg/kg	NA	8.51E-01	5.21E+00	ND					ND					ND				
Benzo(a)pyrene	mg/kg	NA	8.51E-02	1.00E-01	ND					ND					ND				
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	5.98E+01	ND					ND					ND				
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	1.19E+02	ND					ND					ND				
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	1.48E+02	ND					ND					ND				
Chrysene	mg/kg	NA	8.61E+01	4.73E+00	ND					ND					ND				
Fluoranthene	mg/kg	NA	3.09E+02	1.00E-01	ND					ND					7.89E-02				
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	1.09E+02	ND					ND					ND				
Pyrene	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					7.00E-02	J			
PESTICIDES/PCBs																			
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	ND					ND					4.27E-03				YES
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	ND					ND					3.90E-03				YES

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Fort McClellan, Calhoun County, Alabama

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Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					GSBP-158 SI16-SS04 16-SS04 8-May-98 0-1					GSBP-158 SI16-SS05 16-SS05 8-May-98 0-1				
Parameter	Units	BKG ^a	SSSL ^b	ESV ^b	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
METALS														
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	5.41E+03				YES	1.57E+04			YES	YES
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	6.91E+00			YES		7.60E+00 J			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	1.32E+02		YES			3.86E+01 J				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	3.31E-01					2.77E-01				
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	7.84E-02					ND				
Calcium	mg/kg	1.72E+03	NA	NA	1.21E+03					1.45E+02				
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.32E+01 J			YES		3.38E+01 J			YES	YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	4.53E+00					2.10E+00				
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	8.61E+00					1.09E+01				
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	1.99E+04			YES	YES	3.38E+04 J			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	2.10E+01					1.66E+01				
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	4.08E+02					3.26E+02				
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	5.85E+02 J			YES	YES	1.09E+02 J				YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	4.86E-02					3.86E-01		YES		YES
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	3.09E+00					5.55E+00 J				
Potassium	mg/kg	8.00E+02	NA	NA	2.43E+02					3.02E+02				
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					3.14E-01				
Sodium	mg/kg	6.34E+02	NA	NA	6.84E+01 B					3.50E+01 B				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	1.77E+01				YES	5.31E+01 J			YES	YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	2.54E+01					1.50E+01 J				
VOLATILE ORGANIC COMPOUNDS														
1,1,1-Trichloroethane	mg/kg	NA	1.55E+03	1.00E-01	9.80E-03					4.00E-03 J				
1,2-Dichloroethene	mg/kg	NA	7.00E+01	1.00E-01	ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	4.40E-01 J					5.50E-02				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	8.60E-04 J					ND				
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	4.70E-03 J					2.50E-03 J				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	4.10E-03 J					2.20E-03 J				
Tetrachloroethene	mg/kg	NA	1.21E+01	1.00E-02	1.60E-02				YES	8.50E-03				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	2.70E-03 J					1.20E-03 J				
Trichloroethene	mg/kg	NA	5.72E+01	1.00E-03	3.40E-03 J				YES	1.30E-03 J				YES
Xylene, Total	mg/kg	NA	1.55E+04	5.00E-02	2.20E-02					1.20E-02				

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Ground Scar at South End of Confidence Course, Parcel 158(7)
Fort McClellan, Calhoun County, Alabama

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Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					GSBP-158 SI16-SS04 16-SS04 8-May-98 0-1					GSBP-158 SI16-SS05 16-SS05 8-May-98 0-1				
Parameter	Units	BKG ^a	SSSL ^b	ESV ^b	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS														
Acenaphthylene	mg/kg	NA	4.63E+02	6.82E+02	9.71E-02					ND				
Benzo(a)anthracene	mg/kg	NA	8.51E-01	5.21E+00	1.88E-01					ND				
Benzo(a)pyrene	mg/kg	NA	8.51E-02	1.00E-01	3.42E-01			YES	YES	ND				
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	5.98E+01	3.53E-01					ND				
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	1.19E+02	2.65E-01					ND				
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	1.48E+02	3.20E-01					ND				
Chrysene	mg/kg	NA	8.61E+01	4.73E+00	2.32E-01					ND				
Fluoranthene	mg/kg	NA	3.09E+02	1.00E-01	2.32E-01				YES	ND				
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	1.09E+02	3.09E-01					ND				
Pyrene	mg/kg	NA	2.33E+02	1.00E-01	2.10E-01				YES	ND				
PESTICIDES/PCBs														
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	4.30E-02				YES	ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	7.17E-03				YES	ND				

Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods, including Update III methods where applicable.

^a Bkg - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in Science Applications International Corporation (1998), *Final Background Metals Survey Report, Fort McClellan, Alabama, July*.

^b Residential human health 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; the reported value is the estimated concentration.

mg/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.