

Table 5-1

Surface Soil Analytical Results
Ground Scar South of Building 3134, Parcel 153(7)
Fort McClellan, Calhoun County, Alabama

(Page 1 of 4)

Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					GSBP-153 GSBP-153-MW01 BZ0001 18-Jan-00 0- 1					GSBP-153 SI13-SS01 13-SS01A 11-May-98 0- 1					GSBP-153 SI13-SS02 13-SS02A 11-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	9.19E+03			YES	YES	1.24E+04			YES	YES	9.38E+03			YES	YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					ND					1.15E+00	B			
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	1.16E+01			YES	YES	7.94E+00			YES		9.49E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	2.98E+01					3.97E+01					2.49E+01				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	3.80E-01	J				7.32E-01					9.15E-01		YES		
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					ND					ND				
Calcium	mg/kg	1.72E+03	NA	NA	7.41E+02					7.32E+02					2.60E+02				
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	2.74E+01			YES	YES	1.61E+01				YES	1.24E+01	J			YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	4.90E+00	J				1.81E+00					2.49E+00				
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	7.10E+00					3.97E+01		YES			4.52E+01		YES		YES
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	2.86E+04			YES	YES	3.97E+04		YES	YES	YES	4.07E+04		YES	YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	9.50E+00					2.16E+01					2.49E+01				
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	2.76E+02	J				3.72E+02					1.36E+02				
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	1.55E+02				YES	9.43E+01					6.33E+01	J			
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	5.30E-02	B				4.59E-02					3.62E-02				
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	4.60E+00					9.68E+00					8.81E+00				
Potassium	mg/kg	8.00E+02	NA	NA	2.06E+02	J				5.83E+02					5.08E+02				
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					2.71E-01				
Sodium	mg/kg	6.34E+02	NA	NA	ND					7.44E+01					7.23E+01	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	6.80E-01	B		YES		ND					ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	3.37E+01				YES	3.97E+01				YES	3.62E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	1.44E+01					2.33E+01					3.39E+01				
VOLATILE ORGANIC COMPOUNDS																			
1,1,1-Trichloroethane	mg/kg	NA	1.55E+03	1.00E-01	ND					4.40E-02					1.70E-02				
1,1-Dichloroethene	mg/kg	NA	1.05E+00	1.00E-01	ND					2.30E-03	J				ND				
1,2-Dichloroethene	mg/kg	NA	7.00E+01	1.00E-01	ND					2.80E-03	J				8.80E-04	J			
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					7.50E-03	J				1.20E-02	J			
Acetone	mg/kg	NA	7.76E+02	2.50E+00	ND					8.70E-02					2.50E-01				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					1.50E-03	J				9.40E-04	J			
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					8.80E-03					6.00E-03				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	3.60E-03	B				2.10E-02					6.40E-03	B			
Tetrachloroethene	mg/kg	NA	1.21E+01	1.00E-02	ND					3.30E-02				YES	2.20E-02				YES
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					6.30E-03					5.70E-03				
Trichloroethene	mg/kg	NA	5.72E+01	1.00E-03	ND					1.00E-02				YES	ND				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	1.80E-03	J				ND					ND				
Xylene, Total	mg/kg	NA	1.55E+04	5.00E-02	ND					4.20E-02					2.50E-02				

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Fort McClellan, Calhoun County, Alabama

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Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					GSBP-153 GSBP-153-MW01 BZ0001 18-Jan-00 0- 1					GSBP-153 SI13-SS01 13-SS01A 11-May-98 0- 1					GSBP-153 SI13-SS02 13-SS02A 11-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																			
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					ND					1.36E-01	R			
Acenaphthene	mg/kg	NA	4.63E+02	2.00E+01	ND					ND					ND				
Anthracene	mg/kg	NA	2.33E+03	1.00E-01	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				
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					ND					ND				
Fluoranthene	mg/kg	NA	3.09E+02	1.00E-01	ND					ND					ND				
Fluorene	mg/kg	NA	3.09E+02	1.22E+02	ND					ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	1.09E+02	ND					ND					ND				
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND				
Phenanthrene	mg/kg	NA	2.32E+03	1.00E-01	ND					ND					ND				
Pyrene	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND				
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	4.50E-02	B				ND					2.15E-01	R			

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Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					GSBP-153 SI13-SS03 13-SS03A 11-May-98 0- 1					GSBP-153 SI13-SS04 13-SS04 11-May-98 0- 1					GSBP-153 SI13-SS05 13-SS05 11-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	7.89E+03			YES	YES	6.31E+03				YES	4.19E+03				YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					ND					ND				
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	2.71E+00			YES		3.67E+00			YES		3.74E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	3.95E+01					4.38E+01					3.93E+01				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	6.29E-01					5.03E-01					5.71E-01				
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					1.15E-01					2.66E-01				
Calcium	mg/kg	1.72E+03	NA	NA	4.69E+02					6.57E+02					4.57E+02				
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.36E+01				YES	1.22E+01				YES	1.90E+01				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	2.10E+00					2.32E+00					5.71E+00				
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	3.21E+01		YES			2.71E+01		YES			1.40E+01		YES		
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	3.21E+04			YES	YES	2.71E+04			YES	YES	2.16E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	2.71E+01					3.22E+01					3.68E+01				
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	1.73E+02					2.06E+02					2.03E+02				
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	1.60E+02				YES	3.09E+02				YES	1.90E+02				YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	4.56E-02					4.77E-02					4.82E-02				
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	7.15E+00					5.93E+00					4.57E+00				
Potassium	mg/kg	8.00E+02	NA	NA	3.45E+02					2.84E+02					1.65E+02				
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	4.93E-01		YES			1.68E-01					ND				
Sodium	mg/kg	6.34E+02	NA	NA	1.22E+02					1.16E+02					6.73E+01				
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					ND					ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	2.96E+01				YES	2.71E+01				YES	2.54E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	1.92E+01					2.84E+01					3.93E+01				
VOLATILE ORGANIC COMPOUNDS																			
1,1,1-Trichloroethane	mg/kg	NA	1.55E+03	1.00E-01	4.30E-03	J				4.60E-03	J				1.20E-02				
1,1-Dichloroethene	mg/kg	NA	1.05E+00	1.00E-01	ND					ND					ND				
1,2-Dichloroethene	mg/kg	NA	7.00E+01	1.00E-01	ND					ND					4.50E-04	J			
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	5.60E-03	J				2.50E-02	J				9.10E-03	J			
Acetone	mg/kg	NA	7.76E+02	2.50E+00	1.30E-01					5.00E-01					1.60E-01				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	5.60E-04	J				1.00E-03	J				9.10E-04	J			
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	5.10E-03					5.90E-03					5.40E-03				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	1.50E-03	B				1.70E-03	B				ND				
Tetrachloroethene	mg/kg	NA	1.21E+01	1.00E-02	1.40E-02				YES	1.50E-02				YES	1.50E-02				YES
Toluene	mg/kg	NA	1.55E+03	5.00E-02	5.10E-03					8.50E-03					2.80E-03	J			
Trichloroethene	mg/kg	NA	5.72E+01	1.00E-03	1.40E-03	J			YES	1.40E-03	J			YES	2.80E-03	J			YES
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	ND					ND					ND				
Xylene, Total	mg/kg	NA	1.55E+04	5.00E-02	2.30E-02					2.60E-02					2.40E-02				

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Fort McClellan, Calhoun County, Alabama

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Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					GSBP-153 SI13-SS03 13-SS03A 11-May-98 0- 1					GSBP-153 SI13-SS04 13-SS04 11-May-98 0- 1					GSBP-153 SI13-SS05 13-SS05 11-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																			
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					ND					ND				
Acenaphthene	mg/kg	NA	4.63E+02	2.00E+01	ND					ND					3.30E-01				
Anthracene	mg/kg	NA	2.33E+03	1.00E-01	ND					ND					4.57E-01				YES
Benzo(a)anthracene	mg/kg	NA	8.51E-01	5.21E+00	ND					ND					1.09E+00			YES	
Benzo(a)pyrene	mg/kg	NA	8.51E-02	1.00E-01	ND					ND					1.10E+00			YES	YES
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	5.98E+01	ND					ND					1.08E+00			YES	
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	1.19E+02	ND					ND					5.84E-01				
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	1.48E+02	ND					ND					1.15E+00				
Chrysene	mg/kg	NA	8.61E+01	4.73E+00	ND					ND					1.19E+00				
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					ND					1.40E-01				
Fluoranthene	mg/kg	NA	3.09E+02	1.00E-01	ND					ND					2.54E+00				YES
Fluorene	mg/kg	NA	3.09E+02	1.22E+02	ND					ND					2.66E-01				
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	1.09E+02	ND					ND					6.85E-01				
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					2.03E-01				YES
Phenanthrene	mg/kg	NA	2.32E+03	1.00E-01	ND					ND					2.03E+00				YES
Pyrene	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					1.90E+00				YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	ND					ND					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 - Result is greater than the method detection limit but less than or equal to the reporting limit.

mg/kg - Milligrams per kilogram

NA - Not available

ND - Not detected

Qual - Data validation qualifier