

Table 5-5

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

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Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					GSBP-153 GSBP-153-SW/SD01 BZ1001 19-Jan-00 0-0.5					GSBP-153 SI13-SED01 13-SED01 27-May-98 0-0.5				
Parameter	Units	BKG ^a	SSSL ^b	ESV ^b	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
METALS														
Aluminum	mg/kg	8.59E+03	1.15E+06	NA	9.58E+03		YES			1.00E+04		YES		
Antimony	mg/kg	7.30E-01	4.22E+02	1.20E+01	ND					1.26E+00		YES		
Arsenic	mg/kg	1.13E+01	5.58E+01	7.24E+00	9.20E+00				YES	1.10E+01				YES
Barium	mg/kg	9.89E+01	8.36E+04	NA	1.69E+02		YES			2.54E+02		YES		
Beryllium	mg/kg	9.70E-01	1.50E+02	NA	1.60E+00	J	YES			2.16E+00		YES		
Cadmium	mg/kg	4.30E-01	1.71E+02	1.00E+00	1.50E-01	J				9.64E-01		YES		
Calcium	mg/kg	1.11E+03	NA	NA	1.18E+03		YES			1.26E+03		YES		
Chromium	mg/kg	3.12E+01	2.79E+03	5.23E+01	1.72E+01					2.16E+01				
Cobalt	mg/kg	1.10E+01	6.72E+04	5.00E+01	9.80E+00	J				3.68E+01		YES		
Copper	mg/kg	1.71E+01	4.74E+04	1.87E+01	1.63E+01					2.54E+01		YES		YES
Iron	mg/kg	3.53E+04	3.59E+05	NA	2.79E+04					4.19E+04		YES		
Lead	mg/kg	3.78E+01	4.00E+02	3.02E+01	1.35E+01					3.55E+01				YES
Magnesium	mg/kg	9.06E+02	NA	NA	7.40E+02	J				7.49E+02				
Manganese	mg/kg	7.12E+02	4.38E+04	NA	3.01E+02	J				1.40E+03		YES		
Mercury	mg/kg	1.10E-01	2.99E+02	1.30E-01	8.60E-02	B				3.20E-02	J			
Nickel	mg/kg	1.30E+01	1.76E+04	1.59E+01	3.14E+01		YES		YES	4.57E+01		YES		YES
Potassium	mg/kg	1.01E+03	NA	NA	4.68E+02	J				5.46E+02				
Selenium	mg/kg	7.20E-01	5.96E+03	NA	ND					2.09E+00		YES		
Silver	mg/kg	3.20E-01	6.07E+03	2.00E+00	ND					2.41E-01				
Sodium	mg/kg	6.92E+02	NA	NA	ND					4.44E+02				
Thallium	mg/kg	1.30E-01	7.78E+01	NA	7.10E-01	B	YES			1.90E+00		YES		
Vanadium	mg/kg	4.09E+01	4.83E+03	NA	3.68E+01					4.82E+01		YES		
Zinc	mg/kg	5.27E+01	3.44E+05	1.24E+02	5.84E+01	J	YES			8.76E+01	J	YES		
VOLATILE ORGANIC COMPOUNDS														
1,1,1-Trichloroethane	mg/kg	NA	2.11E+05	1.70E-01	1.30E-03	B				2.40E-02				
1,2-Dichloropropane	mg/kg	NA	1.07E+03	3.52E-01	ND					1.10E-02				
2-Butanone	mg/kg	NA	6.23E+05	1.37E-01	ND					1.50E-03	J			
Acetone	mg/kg	NA	1.03E+05	4.53E-01	ND					1.70E-01	J			
Methylene chloride	mg/kg	NA	9.84E+03	1.26E+00	4.90E-03	B				1.10E-02				
Tetrachloroethene	mg/kg	NA	1.42E+03	1.96E-01	ND					3.50E-02				
Toluene	mg/kg	NA	2.11E+05	6.70E-01	ND					6.50E-03				
Trichloroethene	mg/kg	NA	6.61E+03	1.80E-01	ND					1.10E-02				
Trichlorofluoromethane	mg/kg	NA	3.06E+05	3.07E-03	3.80E-03	J			YES	ND				
Xylene, Total	mg/kg	NA	2.11E+06	1.88E+00	ND					1.90E-02				

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Parameter	Units	BKG ^a	SSSL ^b	ESV ^b	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS														
Benzo(a)anthracene	mg/kg	NA	8.93E+01	3.30E-01	ND					4.60E-02	J			
Benzo(a)pyrene	mg/kg	NA	8.93E+00	3.30E-01	ND					4.20E-02	J			
Benzo(b)fluoranthene	mg/kg	NA	8.93E+01	6.55E-01	ND					4.60E-02	J			
Benzo(k)fluoranthene	mg/kg	NA	8.93E+02	6.55E-01	ND					4.10E-02	J			
Chrysene	mg/kg	NA	9.79E+03	3.30E-01	ND					4.90E-02	J			
Fluoranthene	mg/kg	NA	3.73E+04	3.30E-01	ND					8.10E-02	J			
Phenanthrene	mg/kg	NA	2.79E+05	3.30E-01	ND					4.10E-02	J			
Pyrene	mg/kg	NA	3.06E+04	3.30E-01	ND					5.40E-02	J			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	5.41E+03	1.82E-01	2.10E-01	J			YES	4.40E-01	B			YES

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 Recreational user 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).

mg/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.