

Table 5-3

Groundwater Analytical Results
Boiler Plant No. 2, Building 2278, Parcels 23(7) and 226(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date				SI02-GW01 GSBP-23 02-GW01 26-May-98				SI02-GW02 GSBP-23 02-GW02 26-May-98				SI02-GW03 GSBP-23 02-GW03 26-May-98				SI02-GW04 GSBP-23 02-GW04 27-May-98			
Parameter	Units	BKG ^a	SSSL ^b	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS																			
Aluminum	mg/L	2.34E+00	1.56E+00	3.15E+00		YES	YES	9.86E-01				8.66E+00		YES	YES	1.05E+01		YES	YES
Arsenic	mg/L	1.78E-02	4.00E-05	ND				ND				3.89E-03			YES	1.45E-02			YES
Barium	mg/L	1.27E-01	1.10E-01	4.34E-02				7.99E-02				1.23E-01			YES	1.95E-01		YES	YES
Calcium	mg/L	5.65E+01	NA	9.85E+01	J	YES		1.37E+02	J	YES		1.24E+02	J	YES		1.73E+02	J	YES	
Chromium	mg/L	NA	4.69E-03	2.46E-03				1.56E-03				6.92E-03			YES	1.58E-02			YES
Cobalt	mg/L	2.34E-02	9.39E-02	5.39E-03				1.01E-02				1.51E-02				2.19E-02			
Copper	mg/L	2.55E-02	6.26E-02	4.70E-03				4.49E-03				2.68E-02		YES		8.67E-02		YES	YES
Iron	mg/L	7.04E+00	4.69E-01	3.35E+00			YES	5.19E+00			YES	9.68E+00		YES	YES	5.57E+01		YES	YES
Lead	mg/L	7.99E-03	1.50E-02	6.15E-03				4.24E-03				3.00E-02		YES	YES	2.18E-02		YES	YES
Magnesium	mg/L	2.13E+01	NA	6.71E+01		YES		1.01E+02		YES		9.04E+01		YES		1.27E+02		YES	
Manganese	mg/L	5.81E-01	7.35E-02	1.54E+00	J	YES	YES	5.02E+00	J	YES	YES	8.49E+00	J	YES	YES	8.77E+00	J	YES	YES
Nickel	mg/L	NA	3.13E-02	ND				ND				4.70E-03				9.03E-03			
Potassium	mg/L	7.20E+00	NA	4.16E+00				6.58E+00				6.49E+00				9.65E+00		YES	
Silver	mg/L	4.00E-03	7.82E-03	ND				1.75E-03				1.59E-03				5.76E-03		YES	
Sodium	mg/L	1.48E+01	NA	6.37E+01		YES		1.12E+02		YES		9.58E+01		YES		1.33E+02		YES	
Vanadium	mg/L	1.70E-02	1.10E-02	5.37E-03	J			3.42E-03	J			1.46E-02	J		YES	2.15E-02	J	YES	YES
Zinc	mg/L	2.20E-01	4.69E-01	7.67E-03				6.48E-03				2.27E-02				5.59E-02			
VOLATILE ORGANIC COMPOUNDS																			
Acetone	mg/L	NA	1.56E-01	ND				ND				5.70E-03	B			ND			
SEMIVOLATILE ORGANIC COMPOUNDS																			
bis(2-Ethylhexyl)phthalate	mg/L	NA	4.30E-03	1.10E-03	B			5.10E-02	J		YES	8.30E-03	B		YES	1.30E-03	B		

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) 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 method detection limit but less than or equal to reporting limit.

mg/L - Milligrams per liter.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.