

Table 5-3

Groundwater Analytical Results
Golf Course, Parcels 178(7), 83(7), and 141(7)
Fort McClellan, Calhoun County, Alabama

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Parcel Sample Location Sample Number Sample Date				178 REP GSBP-83-MW01 BQ3019 2-Sep-99				178 REP GSBP-83-MW02 BQ3020 2-Sep-99				178 REP SI07-GWS01 07-GWS01 19-May-98			
Parameter	Units	BKG ^a	SSSL ^b	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS															
Aluminum	mg/L	2.34E+00	1.56E+00	3.89E-02	B			5.75E+00		YES	YES	3.35E+00		YES	YES
Antimony	mg/L	3.19E-03	6.20E-04	ND				ND				ND			
Arsenic	mg/L	1.78E-02	4.00E-05	3.30E-03	J		YES	3.50E-03	J		YES	ND			
Barium	mg/L	1.27E-01	1.10E-01	3.91E-02	J			7.35E-02	J			7.97E-02			
Beryllium	mg/L	1.24E-03	3.12E-03	ND				ND				ND			
Cadmium	mg/L	2.51E-03	7.80E-04	ND				ND				ND			
Calcium	mg/L	5.65E+01	NA	3.04E+02		YES		1.98E+02		YES		4.05E+01			
Chromium	mg/L	NA	4.69E-03	ND				7.80E-03	J		YES	4.34E-03			
Cobalt	mg/L	2.34E-02	9.39E-02	6.20E-03	J			1.74E-02	J			5.86E-03			
Copper	mg/L	2.55E-02	6.26E-02	ND				9.80E-03	J			4.78E-03			
Iron	mg/L	7.04E+00	4.69E-01	ND				9.48E+00		YES	YES	4.81E+00			YES
Lead	mg/L	7.99E-03	1.50E-02	ND				4.60E-03				2.83E-03			
Magnesium	mg/L	2.13E+01	NA	1.97E+02		YES		1.15E+02		YES		1.02E+01			
Manganese	mg/L	5.81E-01	7.35E-02	1.22E+00		YES	YES	1.96E+00		YES	YES	4.65E-01			YES
Mercury	mg/L	NA	4.60E-04	1.20E-04	B			1.40E-04	B			ND			
Nickel	mg/L	NA	3.13E-02	ND				3.35E-02	J		YES	3.97E-03			
Potassium	mg/L	7.20E+00	NA	8.58E+00	J	YES		4.84E+00	J			3.19E+00			
Selenium	mg/L	NA	7.82E-03	ND				ND				4.35E-03			
Silver	mg/L	4.00E-03	7.82E-03	ND				ND				ND			
Sodium	mg/L	1.48E+01	NA	1.34E+02		YES		5.84E+01		YES		3.88E+00			
Vanadium	mg/L	1.70E-02	1.10E-02	ND				9.60E-03	J			6.65E-03			
Zinc	mg/L	2.20E-01	4.69E-01	3.60E-03	B			3.11E-02				1.00E-02	J		
PESTICIDES/PCBs															
Aldrin	mg/L	NA	3.90E-06	ND				ND				ND			
Chlordane	mg/L	NA	1.70E-04	ND				ND				ND			
Dieldrin	mg/L	NA	4.00E-06	ND				ND				ND			
Heptachlor epoxide	mg/L	NA	6.60E-06	ND				ND				ND			

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Parameter	Units	BKG ^a	SSSL ^b	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS															
4-Methylphenol	mg/L	NA	7.68E-03	ND				ND				2.00E-03			
Phenol	mg/L	NA	9.31E-01	ND				ND				1.00E-03	J		
bis(2-Ethylhexyl)phthalate	mg/L	NA	4.30E-03	ND				ND				2.20E-03	B		
VOLATILE ORGANIC COMPOUNDS															
1,2,3-Trichlorobenzene	mg/L	NA	1.32E-03	4.20E-04	B			2.40E-04	B			ND			
1,2,4-Trichlorobenzene	mg/L	NA	1.35E-02	2.80E-04	B			ND				ND			
Acetone	mg/L	NA	1.56E-01	1.00E-03	B			1.90E-03	B			1.80E-01			YES
Carbon disulfide	mg/L	NA	1.51E-01	1.90E-04	B			6.00E-04	B			ND			
Chloromethane	mg/L	NA	3.92E-03	1.40E-04	J			ND				ND			
Methyl tert-Butyl Ether ^c	mg/L	NA	NA	ND				ND				ND			
Methylene chloride	mg/L	NA	7.85E-03	ND				ND				7.80E-03	B		
Naphthalene	mg/L	NA	3.00E-03	6.30E-04	B			2.90E-04	B			ND			

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Parcel Sample Location Sample Number Sample Date				178 REP SI07-GWS02 07-GWS02 19-May-98				178 REP SI07-GWS05 07-GWS05 19-May-98			
Parameter	Units	BKG ^a	SSSL ^b	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS											
Aluminum	mg/L	2.34E+00	1.56E+00	2.23E+01		YES	YES	1.83E+01		YES	YES
Antimony	mg/L	3.19E-03	6.20E-04	ND				3.04E-03			YES
Arsenic	mg/L	1.78E-02	4.00E-05	1.42E-02			YES	7.43E-03			YES
Barium	mg/L	1.27E-01	1.10E-01	2.17E-01		YES	YES	1.38E-01		YES	YES
Beryllium	mg/L	1.24E-03	3.12E-03	1.43E-03		YES		6.23E-04			
Cadmium	mg/L	2.51E-03	7.80E-04	ND				5.42E-04			
Calcium	mg/L	5.65E+01	NA	3.48E+01				1.14E+02		YES	
Chromium	mg/L	NA	4.69E-03	5.07E-02			YES	2.27E-02			YES
Cobalt	mg/L	2.34E-02	9.39E-02	3.15E-02		YES		1.15E-02			
Copper	mg/L	2.55E-02	6.26E-02	3.07E-02		YES		2.15E-02			
Iron	mg/L	7.04E+00	4.69E-01	4.29E+01		YES	YES	5.97E+01		YES	YES
Lead	mg/L	7.99E-03	1.50E-02	2.47E-02		YES	YES	1.78E-02		YES	YES
Magnesium	mg/L	2.13E+01	NA	1.34E+01				1.37E+02		YES	
Manganese	mg/L	5.81E-01	7.35E-02	1.67E+00		YES	YES	2.10E+01		YES	YES
Mercury	mg/L	NA	4.60E-04	ND				ND			
Nickel	mg/L	NA	3.13E-02	3.10E-02				1.64E-02			
Potassium	mg/L	7.20E+00	NA	4.51E+00				3.39E+00			
Selenium	mg/L	NA	7.82E-03	ND				ND			
Silver	mg/L	4.00E-03	7.82E-03	ND				1.50E-03			
Sodium	mg/L	1.48E+01	NA	4.81E+00				1.03E+02		YES	
Vanadium	mg/L	1.70E-02	1.10E-02	5.32E-02		YES	YES	3.29E-02		YES	YES
Zinc	mg/L	2.20E-01	4.69E-01	8.16E-02	J			4.66E-02	J		
PESTICIDES/PCBs											
Aldrin	mg/L	NA	3.90E-06	7.20E-06			YES	ND			
Chlordane	mg/L	NA	1.70E-04	6.00E-04	J		YES	ND			
Dieldrin	mg/L	NA	4.00E-06	3.30E-05	J		YES	ND			
Heptachlor epoxide	mg/L	NA	6.60E-06	2.50E-05			YES	ND			

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Parcel Sample Location Sample Number Sample Date				178 REP SI07-GWS02 07-GWS02 19-May-98				178 REP SI07-GWS05 07-GWS05 19-May-98			
Parameter	Units	BKG ^a	SSSL ^b	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS											
4-Methylphenol	mg/L	NA	7.68E-03	ND				ND			
Phenol	mg/L	NA	9.31E-01	ND				ND			
bis(2-Ethylhexyl)phthalate	mg/L	NA	4.30E-03	1.70E-03	B			1.60E-03	B		
VOLATILE ORGANIC COMPOUNDS											
1,2,3-Trichlorobenzene	mg/L	NA	1.32E-03	ND				ND			
1,2,4-Trichlorobenzene	mg/L	NA	1.35E-02	ND				ND			
Acetone	mg/L	NA	1.56E-01	4.80E-03	B			ND			
Carbon disulfide	mg/L	NA	1.51E-01	ND				ND			
Chloromethane	mg/L	NA	3.92E-03	ND				ND			
Methyl tert-Butyl Ether ^c	mg/L	NA	NA	ND				5.00E-03			
Methylene chloride	mg/L	NA	7.85E-03	6.60E-03	B			2.20E-03	J		
Naphthalene	mg/L	NA	3.00E-03	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) as given in IT Corporation (2000), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama*, July.

^c Methyl tert-butyl ether is a tentatively identified compound and is not part of the VOC target compound list. The concentration is estimated.

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.