

Table 5-2

**Subsurface Soil 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 Sample Depth (Feet)				178 REP SI07-SS01 07-SS01B 18-May-98 3-4				178 REP SI07-SS02 07-SS02B 18-May-98 3-4				178 REP SI07-SS03 07-SS03B 18-May-98 3-4				178 REP SI07-SS04 07-SS04B 18-May-98 3-4			
Parameter	Units	BKG ^a	SSSL ^b	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
HERBICIDES																			
Dichloroprop	mg/kg	NA	6.21E+00	8.11E-02	B			ND				3.36E-02	B			ND			
METALS																			
Aluminum	mg/kg	1.36E+04	7.80E+03	6.15E+03				5.41E+03				8.47E+03		YES		1.18E+04			YES
Arsenic	mg/kg	1.83E+01	4.26E-01	2.95E+00			YES	2.89E+01		YES	YES	3.45E+00		YES		3.10E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	4.52E+01				1.50E+01				4.07E+01				5.18E+01			
Beryllium	mg/kg	8.60E-01	9.60E+00	4.99E-01				6.44E-01				4.18E-01				6.36E-01			
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				1.96E-01				ND				ND			
Calcium	mg/kg	6.37E+02	NA	8.24E+02		YES		1.73E+03		YES		9.15E+02		YES		8.48E+02		YES	
Chromium	mg/kg	3.83E+01	2.32E+01	8.47E+00				1.96E+01				1.13E+01				1.41E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	5.34E+00				7.13E+00				3.05E+00				6.60E+00			
Copper	mg/kg	1.94E+01	3.13E+02	6.03E+00				1.61E+01				7.34E+00				1.30E+01			
Iron	mg/kg	4.48E+04	2.34E+03	1.28E+04		YES		2.07E+04			YES	1.58E+04		YES		2.12E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.14E+01				1.84E+01				7.34E+00				1.41E+01			
Magnesium	mg/kg	7.66E+02	NA	4.41E+02				9.32E+02		YES		6.10E+02				1.12E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	3.94E+02			YES	9.90E+01				9.27E+01				8.95E+01			
Mercury	mg/kg	7.00E-02	2.33E+00	2.60E-02	J			3.57E-02				2.82E-02				6.01E-02			
Nickel	mg/kg	1.29E+01	1.54E+02	4.87E+00				1.61E+01		YES		5.42E+00				6.01E+00			
Potassium	mg/kg	7.11E+02	NA	2.20E+02				3.11E+02				2.60E+02				5.06E+02			
Selenium	mg/kg	4.70E-01	3.91E+01	1.16E+00		YES		1.42E+00		YES		1.47E+00		YES		1.78E+00		YES	
Sodium	mg/kg	7.02E+02	NA	7.19E+01				5.52E+01				1.58E+02				1.30E+02			
Vanadium	mg/kg	6.49E+01	5.31E+01	1.62E+01				3.22E+01				2.03E+01				2.71E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	1.28E+01				8.86E+01		YES		1.47E+01				2.71E+01			
PESTICIDES/PCBs																			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND				ND			
Chlordane	mg/kg	NA	1.69E+00	ND				1.01E-02	J			ND				ND			
Dieldrin	mg/kg	NA	3.88E-02	ND				1.84E-03	J			ND				ND			
alpha-Chlordane	mg/kg	NA	NA	ND				1.50E-03	J			ND				ND			
gamma-Chlordane	mg/kg	NA	NA	ND				1.38E-03	J			ND				ND			

Table 5-2

**Subsurface Soil 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 Sample Depth (Feet)				178 REP SI07-SS01 07-SS01B 18-May-98 3-4				178 REP SI07-SS02 07-SS02B 18-May-98 3-4				178 REP SI07-SS03 07-SS03B 18-May-98 3-4				178 REP SI07-SS04 07-SS04B 18-May-98 3-4			
Parameter	Units	BKG ^a	SSSL ^b	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	ND				ND				5.67E-02	B			3.80E-02	B		
VOLATILE ORGANIC COMPOUNDS																			
1,1,1-Trichloroethane	mg/kg	NA	1.55E+03	1.00E-02				4.70E-03				7.10E-03				6.10E-03			
1,1,2-Trichloroethane	mg/kg	NA	1.11E+01	ND				4.10E-03	U			ND				ND			
1,1-Dichloroethene	mg/kg	NA	1.05E+00	7.70E-03	J			ND				ND				ND			
1,2-Dichloroethene	mg/kg	NA	NA	5.90E-04	J			ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	4.30E-03	J			7.00E-03	J			3.80E-03	J			1.10E-02	J		
Acetone	mg/kg	NA	7.76E+02	ND				5.30E-02	B			7.00E-02	B			2.00E-01	B		
Benzene	mg/kg	NA	2.17E+01	7.70E-04	J			ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	3.50E-03	J			2.20E-03	J			1.60E-03	J			1.80E-03	J		
Methylene chloride	mg/kg	NA	8.41E+01	1.30E-02	B			6.30E-03	B			1.10E-02	B			6.70E-03	B		
Tetrachloroethene	mg/kg	NA	1.21E+01	1.50E-02				8.90E-03				7.40E-03				7.40E-03			
Toluene	mg/kg	NA	1.55E+03	1.80E-03	J			1.20E-03	J			1.10E-03	J			4.20E-03	J		
Trichloroethene	mg/kg	NA	5.72E+01	5.30E-03				2.60E-03	J			3.50E-03	J			2.60E-03	J		
Xylene, Total	mg/kg	NA	1.55E+04	1.50E-02				9.40E-03				6.50E-03				7.50E-03			
WET CHEMISTRY																			
Total Organic Carbon	mg/kg	NA	NA	NR				3.28E+03	J			NR				NR			

Table 5-2

Subsurface Soil 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 Sample Depth (Feet)				178 REP SI07-SS05 07-SS05B 18-May-98 3-4				178 REP SI07-SS06 07-SS06B 18-May-98 3-4			
Parameter	Units	BKG ^a	SSSL ^b	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
HERBICIDES											
Dichloroprop	mg/kg	NA	6.21E+00	ND				1.12E-01	B		
METALS											
Aluminum	mg/kg	1.36E+04	7.80E+03	8.32E+03			YES	8.06E+03			YES
Arsenic	mg/kg	1.83E+01	4.26E-01	3.99E+00			YES	8.38E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	5.08E+01				5.88E+01			
Beryllium	mg/kg	8.60E-01	9.60E+00	6.49E-01				6.34E-01			
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND			
Calcium	mg/kg	6.37E+02	NA	6.81E+02		YES		8.29E+02		YES	
Chromium	mg/kg	3.83E+01	2.32E+01	1.30E+01				1.09E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	1.51E+01				1.38E+01			
Copper	mg/kg	1.94E+01	3.13E+02	9.84E+00				1.38E+01			
Iron	mg/kg	4.48E+04	2.34E+03	2.05E+04			YES	1.84E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.51E+01				1.73E+01			
Magnesium	mg/kg	7.66E+02	NA	7.57E+02				2.42E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	7.46E+02			YES	2.65E+02			
Mercury	mg/kg	7.00E-02	2.33E+00	3.68E-02				4.03E-02			
Nickel	mg/kg	1.29E+01	1.54E+02	8.11E+00				1.27E+01			
Potassium	mg/kg	7.11E+02	NA	5.62E+02				3.00E+02			
Selenium	mg/kg	4.70E-01	3.91E+01	1.66E+00		YES		1.47E+00		YES	
Sodium	mg/kg	7.02E+02	NA	1.30E+02				1.38E+02			
Vanadium	mg/kg	6.49E+01	5.31E+01	1.95E+01				1.50E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	2.16E+01				3.57E+01		YES	
PESTICIDES/PCBs											
4,4'-DDT	mg/kg	NA	1.79E+00	ND				1.58E-03	J		
Chlordane	mg/kg	NA	1.69E+00	ND				ND			
Dieldrin	mg/kg	NA	3.88E-02	ND				ND			
alpha-Chlordane	mg/kg	NA	NA	ND				ND			
gamma-Chlordane	mg/kg	NA	NA	ND				ND			

Table 5-2

Subsurface Soil 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 Sample Depth (Feet)				178 REP SI07-SS05 07-SS05B 18-May-98 3-4				178 REP SI07-SS06 07-SS06B 18-May-98 3-4			
Parameter	Units	BKG ^a	SSSL ^b	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS											
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	4.90E-02	B			3.00E-02	B		
VOLATILE ORGANIC COMPOUNDS											
1,1,1-Trichloroethane	mg/kg	NA	1.55E+03	7.40E-03				1.80E-02			
1,1,2-Trichloroethane	mg/kg	NA	1.11E+01	ND				ND			
1,1-Dichloroethene	mg/kg	NA	1.05E+00	ND				1.40E-03	J		
1,2-Dichloroethene	mg/kg	NA	NA	ND				1.30E-03	J		
2-Butanone	mg/kg	NA	4.66E+03	3.70E-03	J			1.00E-02	J		
Acetone	mg/kg	NA	7.76E+02	ND				ND			
Benzene	mg/kg	NA	2.17E+01	ND				5.40E-04	J		
Ethylbenzene	mg/kg	NA	7.77E+02	1.90E-03	J			2.20E-03	J		
Methylene chloride	mg/kg	NA	8.41E+01	1.20E-02	B			2.80E-02	B		
Tetrachloroethene	mg/kg	NA	1.21E+01	8.40E-03				1.20E-02			
Toluene	mg/kg	NA	1.55E+03	1.20E-03	J			2.00E-03	J		
Trichloroethene	mg/kg	NA	5.72E+01	3.70E-03	J			9.30E-03			
Xylene, Total	mg/kg	NA	1.55E+04	8.00E-03				1.00E-02			
WET CHEMISTRY											
Total Organic Carbon	mg/kg	NA	NA	1.09E+04	J			NR			

Analyses performed by Quanterra Environmental Services 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 stated method detection limit but less than or equal to specified reporting limit.

mg/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

NR - Not requested.

Qual - Data validation qualifier.