

Table 5-2

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

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Sample Location Sample Number Sample Date Sample Depth (Feet)				SI02-SS01 02-SS01B 19-May-98 3 - 4				SI02-SS02 02-SS02B 19-May-98 3 - 4				SI02-SS03 02-SS03B 19-May-98 3 - 4			
Parameter	Units	BKG ^a	SSSL ^b	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS															
Aluminum	mg/kg	1.36E+04	7.80E+03	8.41E+03			YES	6.90E+03				8.44E+03			YES
Arsenic	mg/kg	1.83E+01	4.26E-01	4.85E+00			YES	3.21E+00			YES	4.57E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	9.22E+01				7.28E+01				6.64E+01			
Beryllium	mg/kg	8.60E-01	9.60E+00	5.41E-01				9.91E-01		YES		5.51E-01			
Calcium	mg/kg	6.37E+02	NA	9.68E+02		YES		1.04E+03		YES		1.35E+04		YES	
Chromium	mg/kg	3.83E+01	2.32E+01	1.50E+01				1.38E+01				1.24E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	4.49E+00				1.38E+01				4.95E+00			
Copper	mg/kg	1.94E+01	3.13E+02	1.50E+01				2.51E+01		YES		1.91E+01			
Iron	mg/kg	4.48E+04	2.34E+03	2.76E+04			YES	3.76E+04			YES	2.47E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.27E+01				1.63E+01				1.35E+01			
Magnesium	mg/kg	7.66E+02	NA	8.29E+02		YES		8.16E+02		YES		9.34E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	2.19E+02				3.64E+01				1.57E+02			
Mercury	mg/kg	7.00E-02	2.33E+00	ND				ND				3.15E-02	J		
Nickel	mg/kg	1.29E+01	1.54E+02	4.49E+00				1.02E+01				8.32E+00			
Potassium	mg/kg	7.11E+02	NA	3.80E+02				3.26E+02				4.16E+02			
Selenium	mg/kg	4.70E-01	3.91E+01	2.50E+00		YES		2.31E+00		YES		1.99E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	1.05E+00		YES		1.38E+00		YES		8.55E+00		YES	
Sodium	mg/kg	7.02E+02	NA	2.42E+02				2.26E+02				2.14E+02			
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	2.76E+01				3.26E+01				2.25E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	1.96E+01				2.38E+01				3.26E+01			
VOLATILE ORGANIC COMPOUNDS															
1,1,1-Trichloroethane	mg/kg	NA	1.55E+03	1.80E-02				4.20E-03	J			3.30E-02			
1,1-Dichloroethene	mg/kg	NA	1.05E+00	ND				ND				2.40E-03	J		
1,2-Dichloroethene	mg/kg	NA	7.00E+01	6.00E-04	J			ND				1.30E-03	J		
1,2-Dichloropropane	mg/kg	NA	9.26E+00	ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	2.70E-02				1.20E-02	J			8.70E-03	J		
4-Methyl-2-pentanone	mg/kg	NA	6.21E+02	ND				ND				ND			
Acetone	mg/kg	NA	7.76E+02	2.90E-01				ND				6.20E-02			
Benzene	mg/kg	NA	2.17E+01	7.00E-04	J			ND				1.10E-03	J		
Carbon disulfide	mg/kg	NA	7.77E+02	ND				2.40E-03	J			ND			
Ethylbenzene	mg/kg	NA	7.77E+02	9.10E-03				2.60E-03	J			7.70E-03			
Methylene chloride	mg/kg	NA	8.41E+01	1.70E-02	B			5.70E-03	B			4.60E-02			
Tetrachloroethene	mg/kg	NA	1.21E+01	6.40E-02				1.30E-02				5.40E-02			
Toluene	mg/kg	NA	1.55E+03	9.50E-03				2.20E-03	J			7.60E-03			
Trichloroethene	mg/kg	NA	5.72E+01	1.90E-02				3.10E-03	J			2.10E-02			
Xylene, Total	mg/kg	NA	1.55E+04	4.00E-02				1.10E-02				3.40E-02			
SEMIVOLATILE ORGANIC COMPOUNDS															
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	ND				6.46E-02	J			4.21E-02	J		
Phenanthrene	mg/kg	NA	2.32E+03	ND				3.39E-02	J			ND			
Pyrene	mg/kg	NA	2.33E+02	ND				4.27E-02	J			2.90E-02	J		
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	2.07E-01	J			6.36E-02	B			1.35E-01	B		

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

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Sample Location Sample Number Sample Date Sample Depth (Feet)				SI02-SS07 02-SS07A 20-May-98 8 - 9				SI02-SS07 02-SS07B 20-May-98 13 - 14				SI02-SS08 02-SS08A 20-May-98 8 - 9			
Parameter	Units	BKG ^a	SSSL ^b	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS															
Aluminum	mg/kg	1.36E+04	7.80E+03	8.07E+03			YES	9.71E+03			YES	1.02E+04			YES
Arsenic	mg/kg	1.83E+01	4.26E-01	3.71E+00			YES	2.62E+00			YES	4.43E+00	J		YES
Barium	mg/kg	2.34E+02	5.47E+02	1.50E+01				4.21E+01				5.58E+01			
Beryllium	mg/kg	8.60E-01	9.60E+00	9.23E-01		YES		1.40E+00		YES		1.08E+00	J	YES	
Calcium	mg/kg	6.37E+02	NA	8.54E+02		YES		2.46E+03		YES		1.01E+03		YES	
Chromium	mg/kg	3.83E+01	2.32E+01	1.50E+01				1.75E+01				1.74E+01	J		
Cobalt	mg/kg	1.75E+01	4.68E+02	6.46E+00				9.01E+00				1.16E+01	J		
Copper	mg/kg	1.94E+01	3.13E+02	2.42E+01		YES		2.57E+01		YES		4.30E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	3.58E+04		YES		3.16E+04			YES	3.95E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.15E+01				2.46E+01				1.51E+01			
Magnesium	mg/kg	7.66E+02	NA	1.50E+03		YES		1.99E+03		YES		3.14E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	3.81E+01				9.71E+01				1.01E+02	J		
Mercury	mg/kg	7.00E-02	2.33E+00	ND				5.26E-02	J			ND			
Nickel	mg/kg	1.29E+01	1.54E+02	1.50E+01		YES		1.40E+01		YES		2.21E+01		YES	
Potassium	mg/kg	7.11E+02	NA	2.88E+02				3.98E+02				4.19E+02			
Selenium	mg/kg	4.70E-01	3.91E+01	1.42E+00		YES		2.30E+00		YES		1.27E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	5.31E+02				5.85E+02				7.21E+02		YES	
Thallium	mg/kg	1.40E+00	5.08E-01	1.27E+00			YES	9.12E-01			YES	1.40E+00		YES	YES
Vanadium	mg/kg	6.49E+01	5.31E+01	2.88E+01				2.81E+01				3.14E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	3.58E+01		YES		5.26E+01		YES		8.26E+01	J	YES	
VOLATILE ORGANIC COMPOUNDS															
1,1,1-Trichloroethane	mg/kg	NA	1.55E+03	7.10E-02				5.70E-02				5.40E-02			
1,1-Dichloroethene	mg/kg	NA	1.05E+00	3.90E-03	J			3.20E-03	J			3.20E-03	J		
1,2-Dichloroethene	mg/kg	NA	7.00E+01	2.60E-03	J			2.10E-03	J			2.00E-03	J		
1,2-Dichloropropane	mg/kg	NA	9.26E+00	7.50E-03				5.20E-03				ND			
2-Butanone	mg/kg	NA	4.66E+03	7.50E-03	J			4.40E-03	J			5.50E-03	J		
4-Methyl-2-pentanone	mg/kg	NA	6.21E+02	ND				ND				1.40E-03	J		
Acetone	mg/kg	NA	7.76E+02	ND				ND				ND			
Benzene	mg/kg	NA	2.17E+01	1.50E-03	J			1.20E-03	J			1.10E-03	J		
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	9.00E-03				5.90E-03				5.00E-03			
Methylene chloride	mg/kg	NA	8.41E+01	1.00E-01				8.70E-02				8.10E-02			
Tetrachloroethene	mg/kg	NA	1.21E+01	7.40E-02				5.10E-02				4.40E-02			
Toluene	mg/kg	NA	1.55E+03	1.10E-02				7.90E-03				7.70E-03			
Trichloroethene	mg/kg	NA	5.72E+01	3.30E-02				2.60E-02				2.40E-02			
Xylene, Total	mg/kg	NA	1.55E+04	3.90E-02				2.50E-02				2.10E-02			
SEMIVOLATILE ORGANIC COMPOUNDS															
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				1.30E-02	B		
Fluoranthene	mg/kg	NA	3.09E+02	ND				ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	ND				ND				ND			
Pyrene	mg/kg	NA	2.33E+02	ND				ND				ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	4.20E-02	B			1.10E-01	B			5.90E-02	B		

Table 5-2

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

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Sample Location Sample Number Sample Date Sample Depth (Feet)				SI02-SS08 02-SS08B 20-May-98 13 - 14				SI02-SS09 02-SS09B 20-May-98 13 - 14				SI02-SS09 02-SS09A 20-May-98 8 - 9			
Parameter	Units	BKG ^a	SSSL ^b	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS															
Aluminum	mg/kg	1.36E+04	7.80E+03	1.31E+04			YES	8.32E+03			YES	7.15E+03			
Arsenic	mg/kg	1.83E+01	4.26E-01	5.00E+00			YES	7.69E-01			YES	7.79E-01	J		YES
Barium	mg/kg	2.34E+02	5.47E+02	2.63E+01				6.00E+01				6.00E+01			
Beryllium	mg/kg	8.60E-01	9.60E+00	9.19E-01		YES		4.77E-01				8.07E-01			
Calcium	mg/kg	6.37E+02	NA	1.19E+03		YES		1.71E+03		YES		1.27E+03		YES	
Chromium	mg/kg	3.83E+01	2.32E+01	1.91E+01				1.35E+01				1.38E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	1.55E+01				2.57E+00				5.54E+00	J		
Copper	mg/kg	1.94E+01	3.13E+02	2.39E+01		YES		1.47E+01				2.31E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	3.46E+04			YES	1.71E+04			YES	2.19E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	2.03E+01				1.00E+01				8.77E+00	J		
Magnesium	mg/kg	7.66E+02	NA	2.27E+03		YES		2.45E+03		YES		2.77E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	1.31E+02				1.71E+01				6.46E+01	J		
Mercury	mg/kg	7.00E-02	2.33E+00	ND				ND				ND			
Nickel	mg/kg	1.29E+01	1.54E+02	1.19E+01				1.02E+01				1.50E+01		YES	
Potassium	mg/kg	7.11E+02	NA	6.92E+02				3.43E+02				3.00E+02			
Selenium	mg/kg	4.70E-01	3.91E+01	1.06E+00		YES		8.23E-01		YES		5.72E-01		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	7.40E+02		YES		1.84E+02				3.11E+02			
Thallium	mg/kg	1.40E+00	5.08E-01	1.43E+00		YES	YES	ND				7.84E-01	J		YES
Vanadium	mg/kg	6.49E+01	5.31E+01	3.82E+01				1.59E+01				2.08E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	5.01E+01		YES		3.30E+01				4.27E+01		YES	
VOLATILE ORGANIC COMPOUNDS															
1,1,1-Trichloroethane	mg/kg	NA	1.55E+03	7.40E-02				4.70E-02				5.10E-02	J		
1,1-Dichloroethene	mg/kg	NA	1.05E+00	ND				2.50E-03	J			3.00E-03	J		
1,2-Dichloroethene	mg/kg	NA	7.00E+01	3.00E-03	J			1.40E-03	J			1.80E-03	J		
1,2-Dichloropropane	mg/kg	NA	9.26E+00	7.10E-03				4.00E-03	J			5.10E-03	J		
2-Butanone	mg/kg	NA	4.66E+03	6.80E-03	J			4.70E-03	J			8.30E-03	J		
4-Methyl-2-pentanone	mg/kg	NA	6.21E+02	ND				ND				ND			
Acetone	mg/kg	NA	7.76E+02	ND				ND				ND			
Benzene	mg/kg	NA	2.17E+01	1.40E-03	J			9.10E-04	J			1.30E-03	J		
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	6.70E-03				5.70E-03				8.10E-03			
Methylene chloride	mg/kg	NA	8.41E+01	1.40E-01				5.20E-02				7.20E-02	J		
Tetrachloroethene	mg/kg	NA	1.21E+01	6.10E-02				4.60E-02				5.70E-02			
Toluene	mg/kg	NA	1.55E+03	1.10E-02				1.00E-02				9.90E-03			
Trichloroethene	mg/kg	NA	5.72E+01	3.40E-02				2.20E-02				2.50E-02	J		
Xylene, Total	mg/kg	NA	1.55E+04	2.80E-02				2.50E-02				3.60E-02			
SEMIVOLATILE ORGANIC COMPOUNDS															
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	1.20E-02	B			ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	ND				ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	ND				ND				ND			
Pyrene	mg/kg	NA	2.33E+02	ND				ND				ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	1.19E-01	B			6.40E-02	B			4.90E-02	B		

Table 5-2

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

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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/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.