

Table 5-2

Subsurface Soil Analytical Results
Ground Scar Near the ASP, Parcel 156(7)
Fort McClellan, Calhoun County, Alabama

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Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)				GSBP-156 SI14-SS01 14-SS01B 20-May-98 3-4				GSBP-156 SI14-SS02 14-SS02B 20-May-98 3-4				GSBP-156 SI14-SS03 14-SS03B 20-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	1.06E+04			YES	1.10E+04			YES	8.39E+03			YES
Arsenic	mg/kg	1.83E+01	4.26E-01	4.96E+00			YES	3.48E+00			YES	2.53E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	9.93E+01				5.88E+01				4.43E+01			
Beryllium	mg/kg	8.60E-01	9.60E+00	7.59E-01				7.96E-01				6.88E-01			
Calcium	mg/kg	6.37E+02	NA	3.97E+02				1.19E+03		YES		1.98E+02			
Chromium	mg/kg	3.83E+01	2.32E+01	ND				1.71E+01				1.52E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	9.81E+00				4.77E+00				6.06E+00			
Copper	mg/kg	1.94E+01	3.13E+02	ND				1.59E+01				1.52E+01			
Iron	mg/kg	4.48E+04	2.34E+03	ND				2.69E+04			YES	2.21E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.52E+01				1.47E+01				1.17E+01			
Magnesium	mg/kg	7.66E+02	NA	5.84E+02				7.22E+02				3.85E+02			
Manganese	mg/kg	1.36E+03	3.63E+02	1.09E+02				1.20E+02				4.78E+01			
Mercury	mg/kg	7.00E-02	2.33E+00	3.10E-02 J				1.18E-01 J		YES		ND			
Nickel	mg/kg	1.29E+01	1.54E+02	7.83E+00				7.71E+00				5.36E+00			
Potassium	mg/kg	7.11E+02	NA	5.84E+02				6.98E+02				4.31E+02			
Selenium	mg/kg	4.70E-01	3.91E+01	1.28E+00		YES		1.04E+00		YES		7.10E-01		YES	
Sodium	mg/kg	7.02E+02	NA	1.64E+02				2.08E+02				1.40E+02			
Thallium	mg/kg	1.40E+00	5.08E-01	1.02E+00			YES	9.30E-01			YES	6.99E-01			YES
Vanadium	mg/kg	6.49E+01	5.31E+01	3.04E+01				3.06E+01				2.45E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	3.27E+01				3.18E+01				2.33E+01			
VOLATILE ORGANIC COMPOUNDS															
1,1,1-Trichloroethane	mg/kg	NA	1.55E+03	ND				5.90E-02				1.10E-01			
1,1-Dichloroethane	mg/kg	NA	7.77E+02	ND				ND				4.90E-03			
1,1-Dichloroethene	mg/kg	NA	1.05E+00	ND				3.50E-03 J				ND			
1,2-Dichloroethene	mg/kg	NA	7.00E+01	2.90E-03 J				2.30E-03 J				4.60E-03 J			
1,2-Dichloropropane	mg/kg	NA	9.26E+00	6.50E-03 J				5.20E-03				1.20E-02			
2-Butanone	mg/kg	NA	4.66E+03	7.70E-03 J				7.00E-03 J				9.70E-03 J			
Acetone	mg/kg	NA	7.76E+02	ND				ND				5.70E-02			
Benzene	mg/kg	NA	2.17E+01	1.50E-03 J				1.20E-03 J				1.90E-03 J			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				5.20E-03				7.10E-03			
Methylene chloride	mg/kg	NA	8.41E+01	ND				9.50E-02				1.90E-01			
Tetrachloroethene	mg/kg	NA	1.21E+01	5.40E-02 J				4.60E-02				7.60E-02			
Toluene	mg/kg	NA	1.55E+03	9.80E-03 J				8.50E-03				1.60E-02			
Trichloroethene	mg/kg	NA	5.72E+01	3.30E-02 J				2.60E-02				5.40E-02			
Xylene, Total	mg/kg	NA	1.55E+04	ND				2.10E-02				2.80E-02			

Table 5-2

**Subsurface Soil Analytical Results
Ground Scar Near the ASP, Parcel 156(7)
Fort McClellan, Calhoun County, Alabama**

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Parcel				GSBP-156				GSBP-156				GSBP-156			
Sample Location				SI14-SS01				SI14-SS02				SI14-SS03			
Sample Number				14-SS01B				14-SS02B				14-SS03B			
Sample Date				20-May-98				20-May-98				20-May-98			
Sample Depth (Feet)				3-4				3-4				3-4			
Parameter	Units	BKG ^a	SSSL ^b	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS															
Anthracene	mg/kg	NA	2.33E+03	8.00E-03	J			ND				ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	1.80E-02	J			ND				ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	2.10E-02	J			ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	1.60E-02	J			ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	5.20E-02	J			ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	4.20E-02	J			ND				ND			
Pyrene	mg/kg	NA	2.33E+02	2.90E-02	J			ND				ND			
bis(2-Chloroethyl)ether	mg/kg	NA	5.73E-01	5.80E-02	B			ND				ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	ND				6.20E-02	B			5.80E-02	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 - Compound positively identified; reported value is estimated concentration.

mg/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 5-3

Groundwater Analytical Results
Ground Scar Near the ASP, Parcel 156(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date				GSBP-156 GSBP-156-MW01 BQ3037 30-Nov-99				GSBP-156 GSBP-156-MW02 BQ3038 30-Nov-99				GSBP-156 GSBP-156-MW03 BQ3040 1-Dec-99				GSBP-156 GSBP-156-MW04 BQ3041 1-Dec-99			
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	2.87E-01	B			2.46E-01	B			6.34E-01				4.99E-01			
Barium	mg/L	1.27E-01	1.10E-01	3.03E-02	J			1.84E-02	J			1.89E-02	J			1.49E-02	J		
Calcium	mg/L	5.65E+01	NA	1.54E+02		YES		1.14E+02		YES		1.07E+02		YES		9.23E+01		YES	
Cobalt	mg/L	2.34E-02	9.39E-02	5.00E-03	J			3.70E-03	J			ND				ND			
Iron	mg/L	7.04E+00	4.69E-01	3.25E-01				2.46E-01	J			5.86E-01			YES	3.87E-01			
Magnesium	mg/L	2.13E+01	NA	8.84E+01		YES		6.22E+01		YES		7.73E+01		YES		7.81E+01		YES	
Manganese	mg/L	5.81E-01	7.35E-02	2.63E-01			YES	1.67E-01			YES	5.26E-02	J			4.43E-02			
Mercury	mg/L	NA	4.60E-04	8.70E-05	B			7.90E-05	B			8.40E-05	B			9.30E-05	B		
Nickel	mg/L	NA	3.13E-02	3.00E-03	J			2.70E-03	J			2.70E-03	J			3.20E-03	J		
Potassium	mg/L	7.20E+00	NA	1.29E+00	J			1.04E+00	J			7.48E-01	J			5.90E-01	J		
Sodium	mg/L	1.48E+01	NA	8.50E+01		YES		8.26E+01		YES		7.39E+01		YES		6.36E+01		YES	
Zinc	mg/L	2.20E-01	4.69E-01	ND				ND				ND				3.90E-03	J		
VOLATILE ORGANIC COMPOUNDS																			
Acetone	mg/L	NA	1.56E-01	1.70E-03	B			1.70E-03	B			8.80E-04	B			ND			
PESTICIDES																			
4,4'-DDD	mg/L	NA	1.80E-04	1.20E-05	J			1.70E-05	J			ND				ND			
Endrin	mg/L	NA	4.40E-04	ND				1.80E-05	J			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.

B - Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero).

J - Compound positively identified; reported value is estimated concentration.

mg/L - Milligrams per liter.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 5-4

**Surface Water Analytical Results
Ground Scar Near the ASP, Parcel 156(7)
Fort McClellan, Calhoun County, Alabama**

Parcel Sample Location Sample Number Sample Date					GSBP-156 SI14-SW01 14-SW01 13-May-98				
Parameter	Units	BKG ^a	SSSL ^b	ESV ^b	Result	Qual	>BKG	>SSSL	>ESV
METALS									
Aluminum	mg/L	5.26E+00	1.53E+01	8.70E-02	3.82E+00				YES
Barium	mg/L	7.53E-02	1.10E+00	3.90E-03	5.73E-02				YES
Calcium	mg/L	2.52E+01	NA	1.16E+02	2.76E+01		YES		
Chromium	mg/L	1.11E-02	4.08E-02	1.10E-02	3.64E-03				
Cobalt	mg/L	NA	9.31E-01	3.00E-03	8.44E-03				YES
Copper	mg/L	1.27E-02	6.23E-01	6.54E-03	1.57E-02		YES		YES
Iron	mg/L	1.96E+01	4.70E+00	1.00E+00	5.29E+00			YES	YES
Lead	mg/L	8.60E-03	1.50E-02	1.32E-03	4.20E-03				YES
Magnesium	mg/L	1.10E+01	NA	8.20E+01	1.10E+01		YES		
Manganese	mg/L	5.65E-01	6.40E-01	8.00E-02	9.29E-01		YES	YES	YES
Nickel	mg/L	2.24E-02	3.10E-01	8.77E-02	5.47E-03				
Potassium	mg/L	2.56E+00	NA	5.30E+01	1.63E+00				
Sodium	mg/L	3.44E+00	NA	6.80E+02	2.78E+00				
Vanadium	mg/L	1.52E-02	7.90E-02	1.90E-02	8.15E-03				
Zinc	mg/L	4.03E-02	4.65E+00	5.89E-02	2.94E-02				
VOLATILE ORGANIC COMPOUNDS									
Acetone	mg/L	NA	1.57E+00	7.80E+01	4.20E-03	B			
Methylene chloride	mg/L	NA	1.42E-01	1.93E+00	1.90E-03	B			
SEMIVOLATILE ORGANIC COMPOUNDS									
bis(2-Ethylhexyl)phthalate	mg/L	NA	5.17E-02	3.00E-04	2.30E-03	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).

J - Compound positively identified; reported value is estimated concentration.

mg/L - Milligrams per liter.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 5-5

Sediment Analytical Results
Ground Scar Near the ASP, Parcel 156(7)
Fort McClellan, Calhoun County, Alabama

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Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					GSBP-156 SI14-SED01 14-SED01 13-May-98 0-0.5					GSBP-156 SI14-SED02 14-SED02 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	9.30E+03		YES			1.02E+04		YES		
Arsenic	mg/kg	1.13E+01	5.58E+01	7.24E+00	6.43E+00					4.25E+00				
Barium	mg/kg	9.89E+01	8.36E+04	NA	5.55E+01					1.32E+02		YES		
Beryllium	mg/kg	9.70E-01	1.50E+02	NA	8.81E-01					1.04E+00		YES		
Calcium	mg/kg	1.11E+03	NA	NA	1.14E+03		YES			1.08E+04		YES		
Chromium	mg/kg	3.12E+01	2.79E+03	5.23E+01	1.96E+01					1.44E+01				
Cobalt	mg/kg	1.10E+01	6.72E+04	5.00E+01	9.14E+00					1.68E+01		YES		
Copper	mg/kg	1.71E+01	4.74E+04	1.87E+01	2.45E+01		YES		YES	1.80E+01		YES		
Iron	mg/kg	3.53E+04	3.59E+05	NA	3.43E+04					1.80E+04				
Lead	mg/kg	3.78E+01	4.00E+02	3.02E+01	2.12E+01					3.95E+01		YES		YES
Magnesium	mg/kg	9.06E+02	NA	NA	6.36E+02					2.51E+03		YES		
Manganese	mg/kg	7.12E+02	4.38E+04	NA	1.96E+02					7.07E+02				
Mercury	mg/kg	1.10E-01	2.99E+02	1.30E-01	2.30E-02 J					ND				
Nickel	mg/kg	1.30E+01	1.76E+04	1.59E+01	8.65E+00					1.44E+01		YES		
Potassium	mg/kg	1.01E+03	NA	NA	5.87E+02					9.94E+02				
Selenium	mg/kg	7.20E-01	5.96E+03	NA	ND					9.23E-01		YES		
Sodium	mg/kg	6.92E+02	NA	NA	1.29E+02					4.67E+02				
Thallium	mg/kg	1.30E-01	7.78E+01	NA	1.09E+00		YES			6.23E-01		YES		
Vanadium	mg/kg	4.09E+01	4.83E+03	NA	3.26E+01					2.40E+01				
Zinc	mg/kg	5.27E+01	3.44E+05	1.24E+02	5.06E+01					4.79E+01				
VOLATILE ORGANIC COMPOUNDS														
1,1,1-Trichloroethane	mg/kg	NA	2.11E+05	1.70E-01	1.20E-02					3.60E-02				
1,2-Dichloroethene	mg/kg	NA	9.49E+03	2.09E-01	7.60E-04 J					4.60E-04 J				
1,2-Dichloropropane	mg/kg	NA	1.07E+03	3.52E-01	ND					1.30E-02				
2-Butanone	mg/kg	NA	6.23E+05	1.37E-01	1.00E-02 J					1.90E-02 J				
Acetone	mg/kg	NA	1.03E+05	4.53E-01	1.40E-01					2.80E-01 J				
Benzene	mg/kg	NA	2.54E+03	5.70E-02	8.60E-04 J					8.30E-04 J				
Carbon disulfide	mg/kg	NA	1.04E+05	1.34E-01	ND					2.40E-03 J				
Ethylbenzene	mg/kg	NA	1.04E+05	3.60E+00	8.30E-03					4.80E-03 J				
Methylene chloride	mg/kg	NA	9.84E+03	1.26E+00	1.00E-02 B					1.80E-02				
Tetrachloroethene	mg/kg	NA	1.42E+03	1.96E-01	3.80E-02					4.20E-02				
Toluene	mg/kg	NA	2.11E+05	6.70E-01	5.00E-03 J					8.00E-03				
Trichloroethene	mg/kg	NA	6.61E+03	1.80E-01	1.40E-02					1.60E-02				
Xylene, Total	mg/kg	NA	2.11E+06	1.88E+00	3.70E-02					1.90E-02				

Table 5-5

Sediment Analytical Results
Ground Scar Near the ASP, Parcel 156(7)
Fort McClellan, Calhoun County, Alabama

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Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					GSBP-156 SI14-SED01 14-SED01 13-May-98 0-0.5					GSBP-156 SI14-SED02 14-SED02 27-May-98 0-0.5				
Parameter	Units	BKG ^a	SSSL ^b	ESV ^b	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS														
Acenaphthene	mg/kg	NA	5.59E+04	3.30E-01	6.70E-02	J				ND				
Acenaphthylene	mg/kg	NA	5.59E+04	3.30E-01	ND					3.50E-01	J			YES
Anthracene	mg/kg	NA	2.99E+05	3.30E-01	1.90E-02	J				7.80E-02	J			
Benzo(a)anthracene	mg/kg	NA	8.93E+01	3.30E-01	1.35E-01	J				3.00E-01	J			
Benzo(a)pyrene	mg/kg	NA	8.93E+00	3.30E-01	1.92E-01	J				ND				
Benzo(b)fluoranthene	mg/kg	NA	8.93E+01	6.55E-01	1.96E-01					8.00E-01				YES
Benzo(ghi)perylene	mg/kg	NA	2.79E+04	6.55E-01	1.47E-01	J				1.30E+00				YES
Benzo(k)fluoranthene	mg/kg	NA	8.93E+02	6.55E-01	1.79E-01					5.80E-01	J			
Chrysene	mg/kg	NA	9.79E+03	3.30E-01	1.42E-01	J				3.60E-01	J			YES
Fluoranthene	mg/kg	NA	3.73E+04	3.30E-01	2.50E-01	J				3.70E-01	J			YES
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.93E+01	6.55E-01	1.33E-01	J				9.10E-01	J			YES
Phenanthrene	mg/kg	NA	2.79E+05	3.30E-01	3.80E-02	J				1.50E-01	J			
Pyrene	mg/kg	NA	3.06E+04	3.30E-01	1.96E-01					3.80E-01	J			YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	5.41E+03	1.82E-01	6.70E-02	B				2.90E-01	B			YES
PESTICIDES														
4,4'-DDE	mg/kg	NA	1.66E+02	3.30E-03	ND					2.87E-03	R			
4,4'-DDT	mg/kg	NA	1.66E+02	3.30E-03	ND					1.32E-03	R			
Methoxychlor	mg/kg	NA	5.27E+03	3.59E-03	ND					6.59E-03	R			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).

J - Compound positively identified; reported value is estimated concentration.

mg/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

R - Data rejected during data validation.