

Table 5-5

Sediment Analytical Results
Autocraft Shop/Former DPDO and Former Motor Pool Area 2100 North of DPDO
Fort McClellan, Calhoun County, Alabama

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Sample Location Parcel Sample Number Sample Date Sample Depth (Feet)					FTA-100-SW/SD01 100 REP CV1001 26-Jan-99 0-2					FTA-100-SW/SD02 100 REP CV1002 26-Jan-99 0-1					FTA-100-SW/SD03 100 REP CV1003 26-Jan-99 0-.5				
Parameter	Units	BKG ^a	SSSL ^b	ESV ^b	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
PESTICIDES (Method 8081A)																			
4,4'-DDT	mg/kg	NA	1.66E+02	3.30E-03	ND					ND					ND				
delta-BHC	mg/kg	NA	3.13E+02	7.15E+01	ND					ND					ND				
METALS																			
Aluminum	mg/kg	8.59E+03	1.15E+06	NA	3.24E+03					4.81E+03					7.34E+03				
Antimony	mg/kg	7.30E-01	4.22E+02	1.20E+01	1.50E-01	J				3.20E-01	J				3.80E-01	J			
Arsenic	mg/kg	1.13E+01	5.58E+01	7.24E+00	6.50E+00					5.70E+00					3.90E+00				
Barium	mg/kg	9.89E+01	8.36E+04	NA	3.13E+01					4.94E+01					1.13E+02		YES		
Beryllium	mg/kg	9.70E-01	1.50E+02	NA	8.30E-01					9.70E-01		YES			1.20E+00		YES		
Cadmium	mg/kg	4.30E-01	1.71E+02	1.00E+00	1.40E-01	J				2.10E-01	J				2.40E+00		YES		YES
Calcium	mg/kg	1.11E+03	NA	NA	4.07E+02	J				9.42E+02					2.92E+03		YES		
Chromium	mg/kg	3.12E+01	2.79E+03	5.23E+01	1.68E+01	J				1.13E+01	J				1.15E+01	J			
Cobalt	mg/kg	1.10E+01	6.72E+04	5.00E+01	5.70E+00	J				9.60E+00					7.50E+00	J			
Copper	mg/kg	1.71E+01	4.74E+04	1.87E+01	1.11E+01					1.76E+01		YES			1.72E+01		YES		
Iron	mg/kg	3.53E+04	3.59E+05	NA	2.76E+04					2.82E+04					1.36E+04				
Lead	mg/kg	3.78E+01	4.00E+02	3.02E+01	9.00E+00					2.37E+01					2.04E+01				
Magnesium	mg/kg	9.06E+02	NA	NA	2.83E+02	J				8.19E+02					1.43E+03		YES		
Manganese	mg/kg	7.12E+02	4.38E+04	NA	2.13E+02					4.12E+02					3.88E+02				
Mercury	mg/kg	1.10E-01	2.99E+02	1.30E-01	ND					4.00E-02	J				6.00E-02	J			
Nickel	mg/kg	1.30E+01	1.76E+04	1.59E+01	6.70E+00					1.09E+01					1.32E+01		YES		
Potassium	mg/kg	1.01E+03	NA	NA	9.05E+02					1.07E+03		YES			4.75E+02	J			
Selenium	mg/kg	7.20E-01	5.96E+03	NA	6.10E-01	J				9.30E-01		YES			5.50E-01	J			
Sodium	mg/kg	6.92E+02	NA	NA	2.78E+01	B				3.15E+01	B				5.37E+01	B			
Thallium	mg/kg	1.30E-01	7.78E+01	NA	ND					5.60E-01	B	YES			ND				
Vanadium	mg/kg	4.09E+01	4.83E+03	NA	1.47E+01					1.52E+01					2.02E+01				
Zinc	mg/kg	5.27E+01	3.44E+05	1.24E+02	7.02E+01	J	YES			6.81E+01	J	YES			1.04E+02	J	YES		
PESTICIDES/PCBs (Method 8080)																			
4,4'-DDE	mg/kg	NA	1.66E+02	3.30E-03	NR					NR					NR				
Chlordane	mg/kg	NA	1.35E+02	1.70E-03	NR					NR					NR				
alpha-Chlordane	mg/kg	NA	NA	NA	NR					NR					NR				
gamma-Chlordane	mg/kg	NA	NA	NA	NR					NR					NR				

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Fort McClellan, Calhoun County, Alabama

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Sample Location Parcel Sample Number Sample Date Sample Depth (Feet)					FTA-100-SW/SD01 100 REP CV1001 26-Jan-99 0- 2					FTA-100-SW/SD02 100 REP CV1002 26-Jan-99 0- 1					FTA-100-SW/SD03 100 REP CV1003 26-Jan-99 0- .5				
Parameter	Units	BKG ^a	SSSL ^b	ESV ^b	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																			
Anthracene	mg/kg	NA	2.99E+05	3.30E-01	ND					ND					6.10E-02	J			
Benzo(a)anthracene	mg/kg	NA	8.93E+01	3.30E-01	ND					ND					3.30E-01	J			YES
Benzo(a)pyrene	mg/kg	NA	8.93E+00	3.30E-01	ND					ND					2.90E-01	J			
Benzo(b)fluoranthene	mg/kg	NA	8.93E+01	6.55E-01	ND					6.80E-02	J				4.10E-01	J			
Benzo(ghi)perylene	mg/kg	NA	2.79E+04	6.55E-01	ND					ND					1.50E-01	J			
Benzo(k)fluoranthene	mg/kg	NA	8.93E+02	6.55E-01	ND					ND					1.70E-01	J			
Chrysene	mg/kg	NA	9.79E+03	3.30E-01	ND					4.50E-02	J				3.50E-01	J			YES
Fluoranthene	mg/kg	NA	3.73E+04	3.30E-01	ND					4.90E-02	J				8.10E-01	J			YES
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.93E+01	6.55E-01	ND					ND					1.60E-01	J			
Phenanthrene	mg/kg	NA	2.79E+05	3.30E-01	ND					ND					3.20E-01	J			
Pyrene	mg/kg	NA	3.06E+04	3.30E-01	ND					ND					4.90E-01	J			YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	5.41E+03	1.82E-01	5.40E-02	B				6.30E-02	B				ND				
TOTAL ORGANIC CARBON																			
Total Organic Carbon	mg/kg	NA	NA	NA	1.56E+03	J				4.91E+03	J				1.76E+04	J			
VOLATILE ORGANIC COMPOUNDS																			
1,1,1-Trichloroethane	mg/kg	NA	2.11E+05	1.70E-01	ND					ND					ND				
2-Butanone	mg/kg	NA	6.23E+05	1.37E-01	ND					ND					6.60E-03	J			
Acetone	mg/kg	NA	1.03E+05	4.53E-01	ND					ND					3.20E-02	J			
Benzene	mg/kg	NA	2.54E+03	5.70E-02	ND					ND					ND				
Ethylbenzene	mg/kg	NA	1.04E+05	3.60E+00	ND					ND					ND				
Methylene chloride	mg/kg	NA	9.84E+03	1.26E+00	2.50E-03	B				2.80E-03	B				4.40E-03	B			
Tetrachloroethene	mg/kg	NA	1.42E+03	1.96E-01	ND					ND					ND				
Toluene	mg/kg	NA	2.11E+05	6.70E-01	ND					ND					ND				
Trichloroethene	mg/kg	NA	6.61E+03	1.80E-01	ND					ND					ND				
Xylene, Total	mg/kg	NA	2.11E+06	1.88E+00	ND					ND					ND				
p-Cymene	mg/kg	NA	2.08E+05	NA	ND					4.30E-03	J				ND				

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Sediment Analytical Results
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Sample Location Parcel Sample Number Sample Date Sample Depth (Feet)					FTA-145-SW/SD02 100 REP CY1002 27-Jan-99 0- .5					SI06-SED01 100 REP 06-SED01 18-May-98 0- 0					WS100-SW/SD01 100 REP WS1001 27-Jan-99 0- 1				
Parameter	Units	BKG ^a	SSSL ^b	ESV ^b	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
PESTICIDES (Method 8081A)																			
4,4'-DDT	mg/kg	NA	1.66E+02	3.30E-03	NR					NR					1.50E-03	J			
delta-BHC	mg/kg	NA	3.13E+02	7.15E+01	NR					NR					5.50E-04	J			
METALS																			
Aluminum	mg/kg	8.59E+03	1.15E+06	NA	2.41E+03					4.39E+03					2.75E+03				
Antimony	mg/kg	7.30E-01	4.22E+02	1.20E+01	ND					ND					ND				
Arsenic	mg/kg	1.13E+01	5.58E+01	7.24E+00	4.00E+00					5.04E+00					5.20E+00				
Barium	mg/kg	9.89E+01	8.36E+04	NA	1.88E+01	J				7.47E+01					3.66E+01				
Beryllium	mg/kg	9.70E-01	1.50E+02	NA	3.50E-01	J				6.00E-01					5.30E-01	J			
Cadmium	mg/kg	4.30E-01	1.71E+02	1.00E+00	ND					3.66E+00	J	YES		YES	5.80E-01	J	YES		
Calcium	mg/kg	1.11E+03	NA	NA	4.29E+02	J				2.34E+03		YES			6.14E+02	J			
Chromium	mg/kg	3.12E+01	2.79E+03	5.23E+01	1.10E+01					2.20E+01					1.27E+01	J			
Cobalt	mg/kg	1.10E+01	6.72E+04	5.00E+01	2.40E+00	J				6.88E+00					6.90E+00				
Copper	mg/kg	1.71E+01	4.74E+04	1.87E+01	7.30E+00					1.90E+01		YES		YES	1.54E+01	J			
Iron	mg/kg	3.53E+04	3.59E+05	NA	1.30E+04					1.61E+04					1.58E+04				
Lead	mg/kg	3.78E+01	4.00E+02	3.02E+01	2.06E+01					2.34E+01					1.00E+01				
Magnesium	mg/kg	9.06E+02	NA	NA	4.17E+02	J				8.93E+02					4.69E+02	J			
Manganese	mg/kg	7.12E+02	4.38E+04	NA	1.73E+02					6.59E+02					3.52E+02				
Mercury	mg/kg	1.10E-01	2.99E+02	1.30E-01	2.00E-02	J				2.20E-02	J				1.40E-02	J			
Nickel	mg/kg	1.30E+01	1.76E+04	1.59E+01	4.30E+00	J				9.66E+00					1.01E+01				
Potassium	mg/kg	1.01E+03	NA	NA	2.00E+02	J				2.05E+02					1.98E+02	J			
Selenium	mg/kg	7.20E-01	5.96E+03	NA	9.00E-01	B	YES			1.35E+00		YES			1.10E+00	B	YES		
Sodium	mg/kg	6.92E+02	NA	NA	7.66E+01	B				1.46E+02					6.69E+01	B			
Thallium	mg/kg	1.30E-01	7.78E+01	NA	ND					ND					ND				
Vanadium	mg/kg	4.09E+01	4.83E+03	NA	1.37E+01					2.20E+01					1.48E+01				
Zinc	mg/kg	5.27E+01	3.44E+05	1.24E+02	4.66E+01					1.19E+02		YES			5.21E+01	J			
PESTICIDES/PCBs (Method 8080)																			
4,4'-DDE	mg/kg	NA	1.66E+02	3.30E-03	NR					1.40E-03	J				NR				
Chlordane	mg/kg	NA	1.35E+02	1.70E-03	NR					1.69E-02				YES	NR				
alpha-Chlordane	mg/kg	NA	NA	NA	NR					1.33E-02					NR				
gamma-Chlordane	mg/kg	NA	NA	NA	NR					1.18E-02					NR				

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Sample Location Parcel Sample Number Sample Date Sample Depth (Feet)					FTA-145-SW/SD02 100 REP CY1002 27-Jan-99 0- .5					SI06-SED01 100 REP 06-SED01 18-May-98 0- 0					WS100-SW/SD01 100 REP WS1001 27-Jan-99 0- 1				
Parameter	Units	BKG ^a	SSSL ^b	ESV ^b	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																			
Anthracene	mg/kg	NA	2.99E+05	3.30E-01	ND					ND					3.60E-02	J			
Benzo(a)anthracene	mg/kg	NA	8.93E+01	3.30E-01	6.60E-02	J				1.76E-01					1.10E-01	J			
Benzo(a)pyrene	mg/kg	NA	8.93E+00	3.30E-01	7.80E-02	J				1.90E-01	J				1.10E-01	J			
Benzo(b)fluoranthene	mg/kg	NA	8.93E+01	6.55E-01	8.90E-02	J				2.34E-01	J				1.10E-01	J			
Benzo(ghi)perylene	mg/kg	NA	2.79E+04	6.55E-01	6.20E-02	J				ND					8.50E-02	J			
Benzo(k)fluoranthene	mg/kg	NA	8.93E+02	6.55E-01	6.70E-02	J				2.20E-01	J				9.60E-02	J			
Chrysene	mg/kg	NA	9.79E+03	3.30E-01	7.50E-02	J				2.05E-01					1.20E-01	J			
Fluoranthene	mg/kg	NA	3.73E+04	3.30E-01	1.10E-01	J				3.81E-01				YES	2.00E-01	J			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.93E+01	6.55E-01	5.80E-02	J				ND					7.10E-02	J			
Phenanthrene	mg/kg	NA	2.79E+05	3.30E-01	ND					1.26E-01					8.90E-02	J			
Pyrene	mg/kg	NA	3.06E+04	3.30E-01	9.50E-02	J				2.93E-01					1.90E-01	J			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	5.41E+03	1.82E-01	ND					ND					ND				
TOTAL ORGANIC CARBON																			
Total Organic Carbon	mg/kg	NA	NA	NA	2.33E+03										2.06E+03				
VOLATILE ORGANIC COMPOUNDS																			
1,1,1-Trichloroethane	mg/kg	NA	2.11E+05	1.70E-01	ND					7.40E-03					ND				
2-Butanone	mg/kg	NA	6.23E+05	1.37E-01	ND					1.20E-02	J				ND				
Acetone	mg/kg	NA	1.03E+05	4.53E-01	ND					1.60E-01	B				1.60E-02	J			
Benzene	mg/kg	NA	2.54E+03	5.70E-02	ND					4.40E-04	J				ND				
Ethylbenzene	mg/kg	NA	1.04E+05	3.60E+00	ND					2.60E-03	J				ND				
Methylene chloride	mg/kg	NA	9.84E+03	1.26E+00	3.50E-03	B				9.50E-03	B				3.40E-03	B			
Tetrachloroethene	mg/kg	NA	1.42E+03	1.96E-01	ND					1.10E-02					ND				
Toluene	mg/kg	NA	2.11E+05	6.70E-01	ND					4.10E-03	J				ND				
Trichloroethene	mg/kg	NA	6.61E+03	1.80E-01	ND					3.80E-03	J				ND				
Xylene, Total	mg/kg	NA	2.11E+06	1.88E+00	ND					1.10E-02					ND				
p-Cymene	mg/kg	NA	2.08E+05	NA	ND										ND				

Table 5-5

**Sediment Analytical Results
Autocraft Shop/Former DPDO and Former Motor Pool Area 2100 North of DPDO
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 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 - 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.

NR - Analysis not requested.

Qual - Data validation qualifier.