Final

Site Investigation Report
Former Ordnance Motor Repair Area,
Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)

Volume I of II
Text and Appendices A–E

Fort McClellan
Calhoun County, Alabama

Prepared for:

U.S. Army Corps of Engineers, Mobile District
109 St. Joseph Street
Mobile, Alabama 36602

Prepared by:

IT Corporation
312 Directors Drive
Knoxville, Tennessee 37923

Task Order CK05
Contract No. DACA21-96-D-0018
IT Project No. 774645

September 2001

Revision 0

Final

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Volume II of II
Appendices F–I

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Executive Summary

In accordance with Contract Number DACA21-96-D-0018, Task Order CK05, IT Corporation completed a site investigation (SI) at the Former Ordnance Motor Repair Area (FOMRA), Parcels 75(7), 5(7), 6(7), 41(7), and 42(7) at Fort McClellan (FTMC) in Calhoun County, Alabama. The SI was conducted to determine whether chemical constituents are present at the FOMRA and, if present, whether the concentrations present an unacceptable risk to human health or the environment. The SI at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7) consisted of the sampling and analysis of 60 surface soil samples, 5 depositional soil samples, 73 subsurface soil samples, 23 groundwater samples, and 11 surface water and sediment samples. In addition, 23 groundwater monitoring wells were installed in the residuum groundwater zone to facilitate groundwater sample collection and to provide site-specific geological and hydrogeological characterization information. The Small Weapons Repair Shop (Building 335, Parcel 66[7]) was originally included within Parcel 75(7). Parcel 66(7) was included in the SI work plan, and samples were collected at the site as specified in the work plan. However, based on the analytical results (vinyl chloride in groundwater), additional investigation was deemed necessary at Parcel 66(7). Consequently, Parcel 66(7) is being addressed separately in a remedial investigation and is not included in this SI report.

Chemical analysis of samples collected at the FOMRA indicates that metals, volatile organic compounds (VOC), semivolatile organic compounds (SVOC), and pesticides have been detected in the various site media. In addition, one herbicide was detected in soils and groundwater, and one polychlorinated biphenyl (PCB) compound was detected in one surface soil sample. To evaluate whether the detected constituents pose an unacceptable risk to human health or the environment, analytical results were compared to human health site-specific screening levels (SSSL), ecological screening values (ESV), and background screening values for FTMC.

The potential threat to human receptors is expected to be low. Although the site is projected for industrial reuse, the soils and groundwater analytical data were screened against residential human health SSSLs to evaluate the site for possible unrestricted land reuse. In soils, four metals (barium [at two surface locations], chromium [one surface location], iron [one surface location and one subsurface location], and lead [two surface locations]) were detected at concentrations exceeding SSSLs, background concentrations, and the range of background values. Additional confirmation soil sampling was performed at the request of the U.S. Environmental Protection Agency and Alabama Department of Environmental Management at three surface soil sample

locations with elevated concentrations of barium or lead. Based on the results of the confirmation sampling, these areas were determined to be isolated "hot spots" and not representative of widespread conditions.

Several polynuclear aromatic hydrocarbon (PAH) compounds were detected at concentrations exceeding SSSLs and PAH background screening values in several surface soil samples. In addition, five PAH compounds exceeded SSSLs in two subsurface soil sample locations. However, based on the spatial distribution of PAHs at the site, the elevated PAHs appear to be the result of anthropogenic activities and not related to site operations.

In groundwater, six metals (aluminum, barium, iron, manganese, vanadium, and thallium) were detected at concentrations exceeding residential human health SSSLs and background concentrations. However, the majority of these metals were present in three samples that had high turbidity at the time of sample collection that caused the elevated results. Excluding the high turbidity samples, only one metal (manganese) was detected at concentrations exceeding the SSSL and the background concentration in groundwater. The manganese concentrations were within the range of background values determined by Science Applications International Corporation (1998).

Metals, VOCs, SVOCs, and pesticides were detected in site media (primarily surface and depositional soils) at concentrations exceeding ESVs. In addition, one herbicide and one PCB were detected in one surface/depositional soil sample each at concentrations exceeding ESVs. However, the potential impact to ecological receptors is expected to be minimal based on the existing viable habitat and site conditions. The site is a well-developed industrialized area, consisting of buildings, paved roads/areas, and railroad tracks, interspersed with limited grassy areas, and is projected for continued industrial land use. Viable ecological habitat is presently limited and is not expected to increase in the future land use scenario. Consequently, the potential threat to ecological receptors is expected to be low.

Based on the results of the SI, past operations at the FOMRA do not appear to have adversely impacted the environment. The metals and chemical constituents detected in site media do not pose an unacceptable risk to human health and the environment. Therefore, IT Corporation recommends "No Further Action" and unrestricted land reuse at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7).

1.0 Introduction

The U.S. Army has selected Fort McClellan (FTMC) located in Calhoun County, Alabama, for closure by the Base Realignment and Closure (BRAC) Commission under Public Laws 100-526 and 101-510. The 1990 Base Closure Act, Public Law 101-510, established the process by which U.S. Department of Defense (DOD) installations would be closed or realigned. The BRAC Environmental Restoration Program requires investigation and cleanup of federal properties prior to transfer to the public domain. The U.S. Army is conducting environmental studies of the impact of suspected contaminants at parcels at FTMC under the management of the U.S. Army Corps of Engineers (USACE)-Mobile District. The USACE contracted IT Corporation (IT) to perform the site investigation (SI) at the Former Ordnance Motor Repair Area (FOMRA), Parcels 75(7), 5(7), 6(7), 41(7), and 42(7) under Contract Number DACA21-96-D-0018, Task Order CK05. The Small Weapons Repair Shop (Building 335, Parcel 66[7]) was formerly included within Parcel 75(7). Parcel 66(7) was included in the SI work plan, and samples were collected at the site as specified in the work plan. However, based on the analytical results (vinyl chloride in groundwater), further investigation was deemed necessary at Parcel 66(7). Consequently, Parcel 66(7) is being addressed separately in a remedial investigation and is not included in this SI report.

This SI report presents specific information and results compiled from the SI, including field sampling and analysis and monitoring well installation activities, conducted at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7).

1.1 Project Description

The FOMRA was identified as an area to be investigated prior to property transfer. The site was classified as a Category 7 site in the environmental baseline survey (EBS) (Environmental Science and Engineering, Inc. [ESE], 1998). Category 7 sites are areas that are not evaluated and/or that require further evaluation.

A site-specific field sampling plan (SFSP) attachment (IT, 1998a) and a site-specific safety and health plan (SSHP) attachment were finalized in December 1998. The SFSP and SSHP were prepared to provide technical guidance for sample collection and analysis at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7). The SFSP was used in conjunction with the SSHP as attachments to the installation-wide work plan (IT, 1998b), and the installation-wide sampling

and analysis plan (SAP) (IT, 2000a). The SAP includes the installation-wide safety and health plan and quality assurance plan.

The SI field work included the collection and analysis of 60 surface soil samples, 73 subsurface soil samples, 23 groundwater samples, 11 surface water and sediment samples, and 5 depositional soil samples. The analytical results were used to determine if potential site-specific chemicals were present at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7).

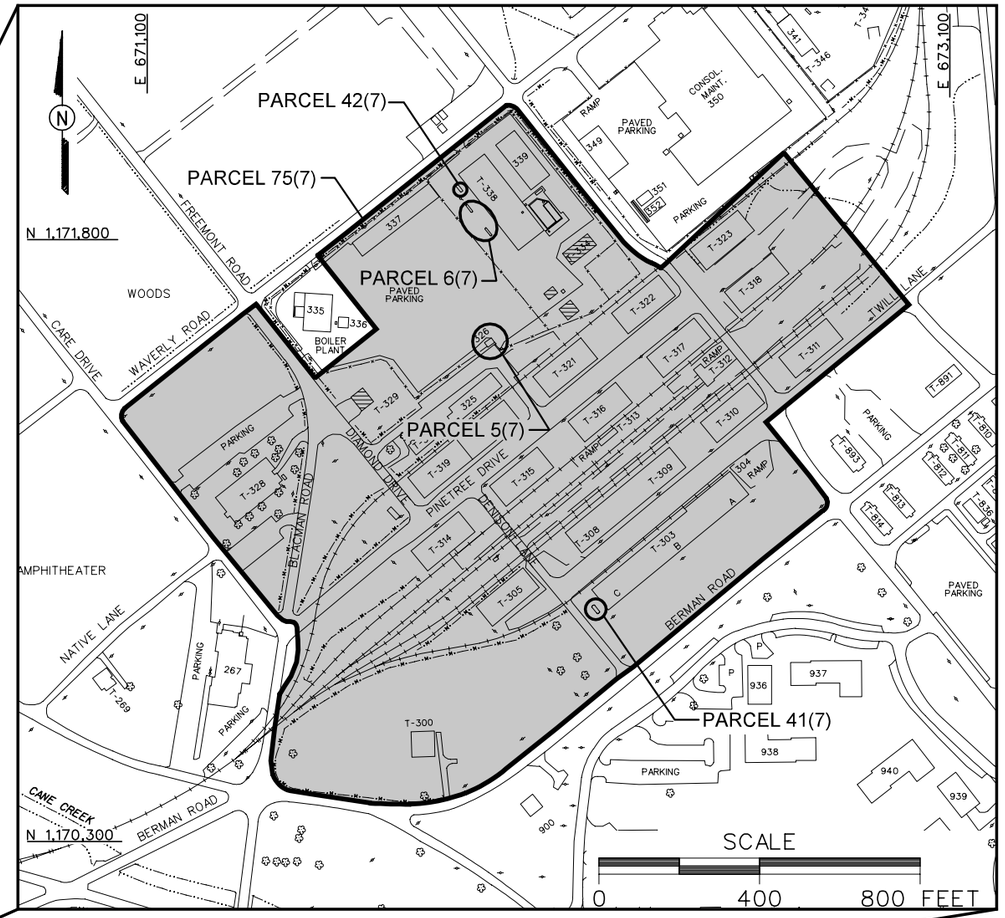
1.2 Purpose and Objectives

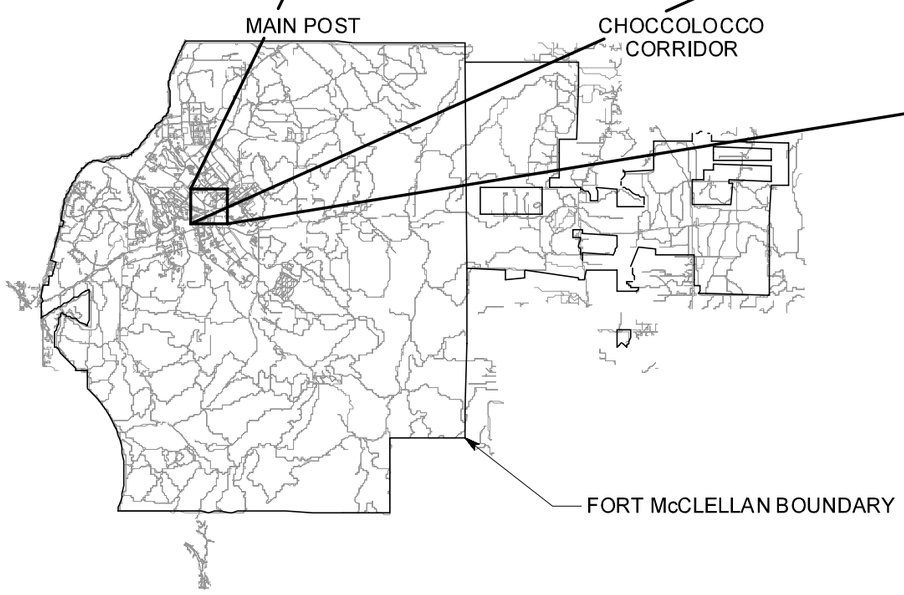
The SI program was designed to collect data from site media and provide a level of defensible data and information in sufficient detail to determine whether chemical constituents are present at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), at concentrations that present an unacceptable risk to human health or the environment. The conclusions of the SI in Chapter 6.0 are based on the comparison of the analytical results to human health site-specific screening levels (SSSL), ecological screening values (ESV), and background screening values for FTMC. The SSSLs and ESVs were developed by IT as part of the human health and ecological risk evaluations associated with SIs being performed under the BRAC Environmental Restoration Program at FTMC. The SSSLs, ESVs, and polynuclear aromatic hydrocarbon (PAH) background screening values are presented in the *Final Human Health and Ecological Screening Values and PAH Background Summary Report* (IT, 2000b). The PAH background screening values were developed by IT at the direction of the BRAC Cleanup Team (BCT) to address the occurrence of PAH compounds in surface soils as a result of anthropogenic activities at FTMC. Background metals screening values are presented in the *Final Background Metals Survey Report, Fort McClellan, Alabama* (Science Applications International Corporation [SAIC], 1998).

Based on the conclusions presented in this SI report, the BCT will decide either to propose "No Further Action" at the site or to conduct additional work at the site.

1.3 Site Description and History

The FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), is located in the central area of the Main Post of FTMC (Figure 1-1). The site is primarily bordered by Waverly Road (formerly 18th Street) on the north, Berman Road (formerly 20th Street) on the south, and Care Drive (formerly 5th Avenue) on the west (Figure 1-2). The SI for the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), encompasses three different areas. The first area is the actual FOMRA





LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- BUILDING REMOVED (FOUNDATION REMAINS)
- TREES / TREELINE
- PARCEL BOUNDARY
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- RAILROAD
- UTILITY POLE

FIGURE 1-1
SITE LOCATION MAP
FORMER ORDNANCE MOTOR REPAIR AREA
PARCELS 75(7), 5(7), 6(7), 41(7), AND 42(7)

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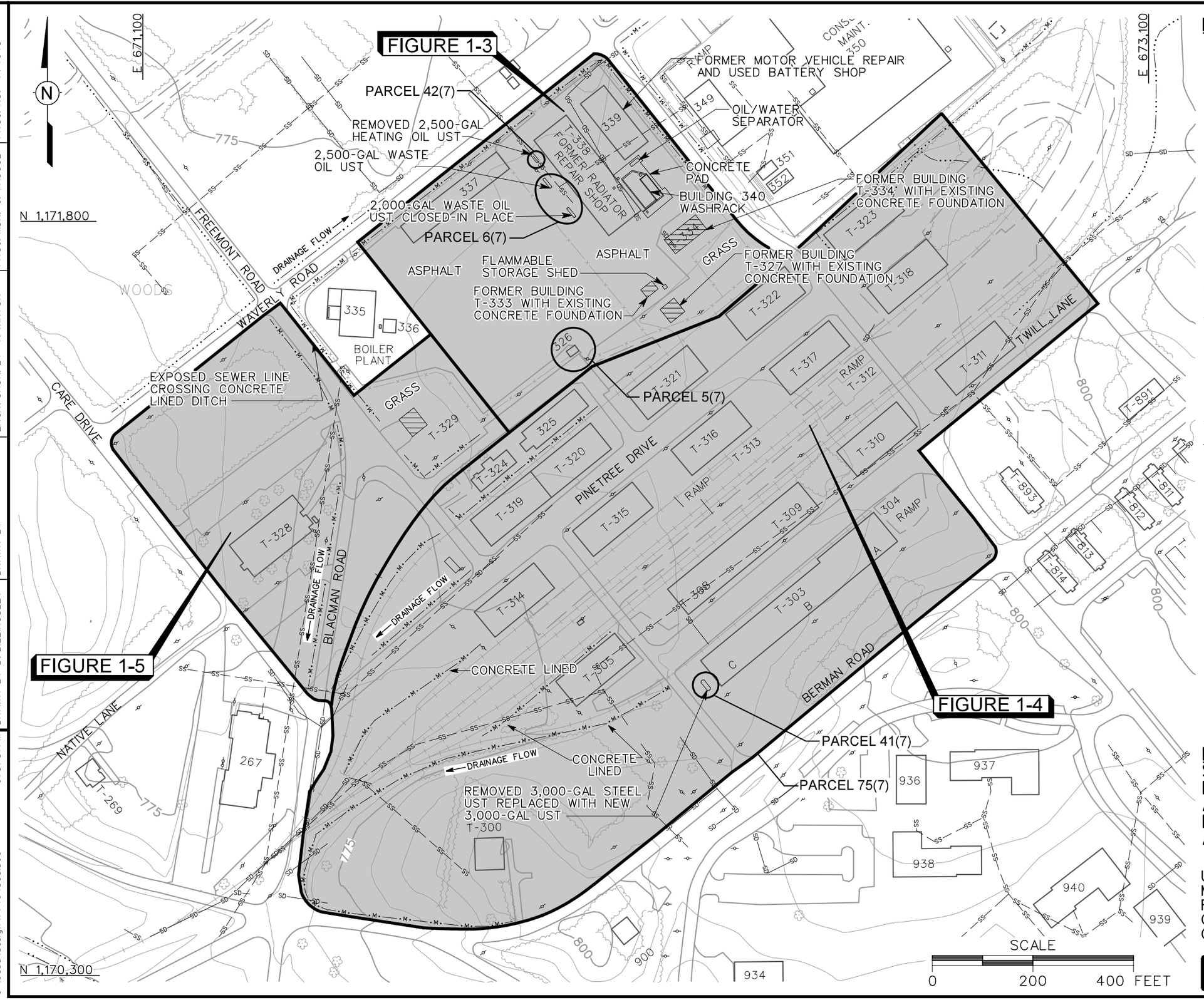

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- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 5 FOOT)
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- PARCEL BOUNDARY
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- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- RAILROAD
- UTILITY POLE
- SANITARY SEWER LINE
- STORM DRAINAGE LINE

FIGURE 1-2
SITE MAP
FORMER ORDNANCE MOTOR REPAIR AREA
PARCELS 75(7), 5(7), 6(7), 41(7), AND 42(7)

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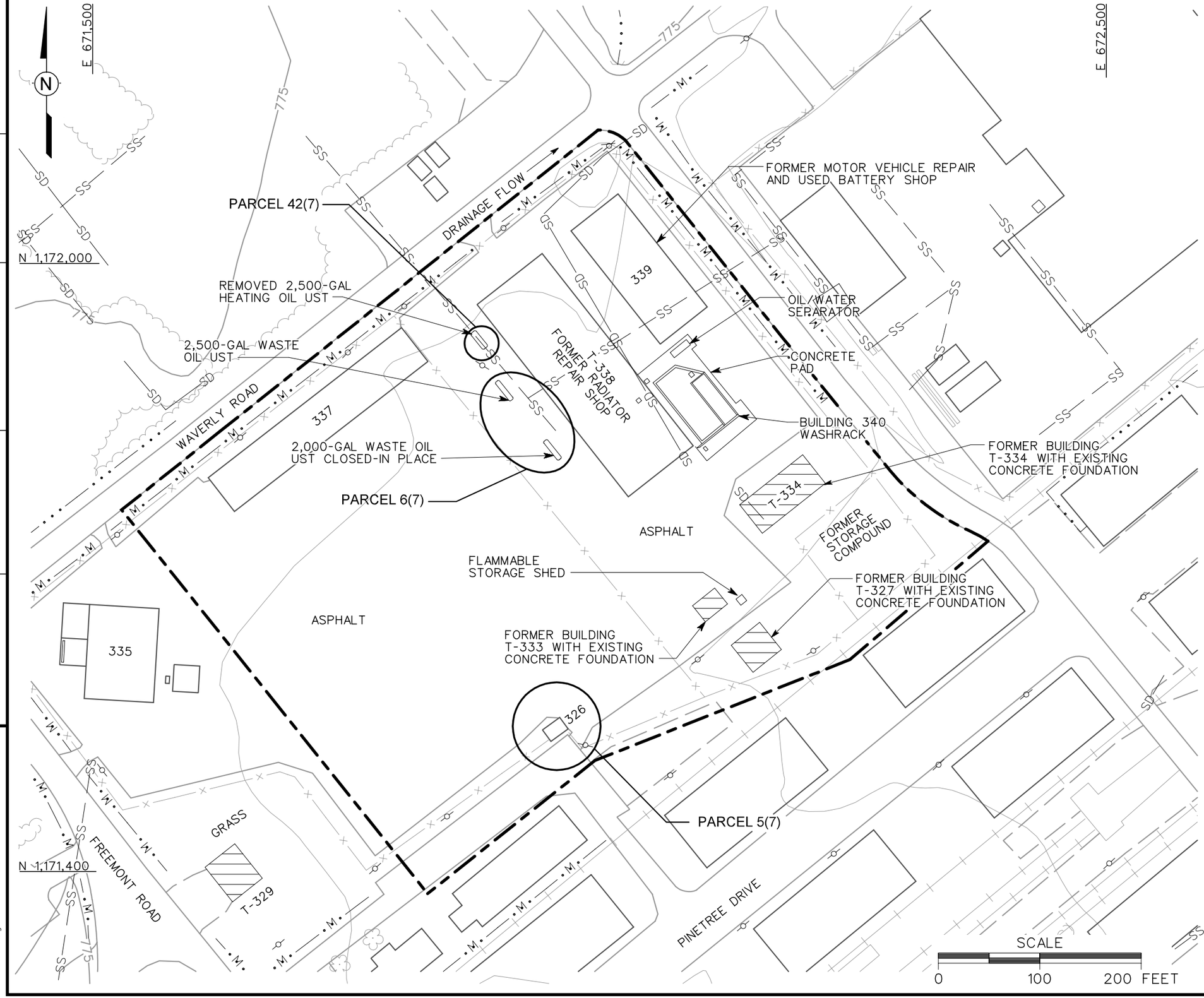
and includes Buildings 326, 337, T-338, 339, 340, and former Buildings T-327, T-333, and T-334 (Figure 1-3). The second area (the warehouse area) includes 19 buildings, mostly warehouses, that originally were used to store and/or distribute materials and equipment shipped in or out by rail. The building numbers in the warehouse area are T-300, T-303, 304, T-305, T-308 through T-324, and 325 (Figure 1-4). Building T-300 was an officer residence that was included in the warehouse area. The third area includes Building T-328 (the Branch Exchange and classroom facility) and Former Building T-329 (a military clothing store) (Figure 1-5). The buildings in the three areas were listed together as Parcel 75(7) in the EBS (ESE, 1998).

The site covers approximately 40 acres and consists of the buildings listed in Table 1-1. Table 1-1 also provides a brief description of the use of each building. Several buildings at this site are not discussed in the following paragraphs because there was not any information available other than the listing provided in Table 1-1. Most of these buildings were built in the early 1940s; however, it is unknown when the FOMRA moved to this location (ESE, 1998). A fenced compound, which was used for material and equipment storage, is located southeast of former Building T-334.

Building T-300, formerly the Unaccompanied Officer's Quarters Transient Building (known as the "Berman House"), is located at the southern edge of Parcel 75(7) (Figure 1-4). This building was identified as containing asbestos-containing materials but the potential for exposure to asbestos-containing materials was considered to be low (ESE, 1998). This facility was used as an officer's residence and is not addressed in this SI report.

Building T-303 was used as the Central Issue Facility, Directorate of Logistics Building. Building T-303, which is located in the southern portion of the warehouse area, was used to issue military equipment to troops (Figure 1-4). A 3,000-gallon heating oil underground storage tank (UST) (Parcel 41[7]) is located at the west end of the building. The original UST was removed in 1996 and replaced (Table 1-2). Chapter 2.0 presents details of the UST removal activities.

At one time, Building 326 had two USTs (Parcel 5[7]) and was possibly a former FTMC gas station (Figure 1-3). Reportedly, a 500-gallon motor vehicle gasoline (MOGAS) UST and a 500-gallon diesel fuel UST were located at this building. These USTs were removed sometime between 1990 and 1991. However, closure reports for the removal of the USTs are not available (ESE, 1998). Chapter 2.0 presents details of the UST removal activities.



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- UTILITY POLE
- SS — SANITARY SEWER LINE
- SD — STORM DRAINAGE LINE

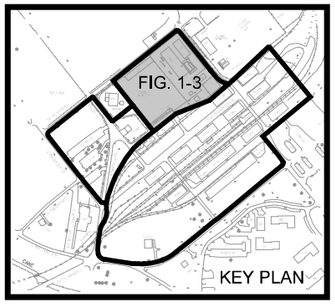

FIGURE 1-3
SITE MAP
BUILDINGS 326, T-327, T-333, T-334, 337, T-338, 339, AND 340
FORMER ORDNANCE MOTOR REPAIR AREA
PARCELS 75(7), 5(7), 6(7), 41(7), AND 42(7)

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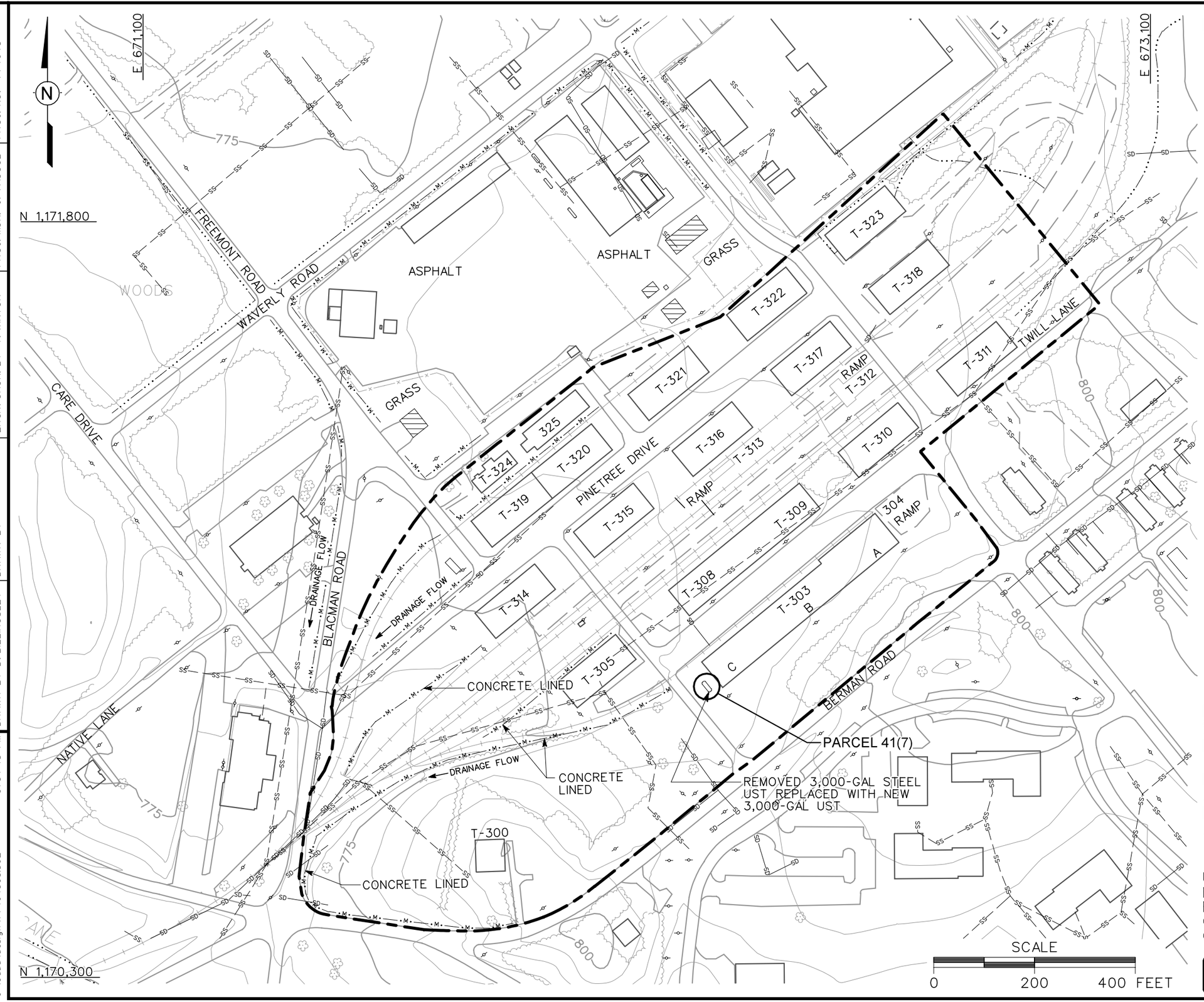

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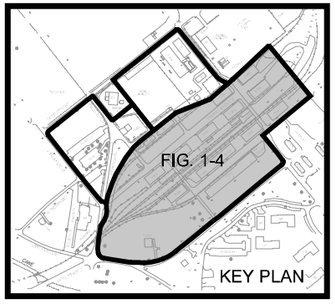

FIGURE 1-4
SITE MAP
BUILDINGS T-300, T-303, 304, T-305
T-308 THROUGH T-324, AND 325
FORMER ORDNANCE MOTOR REPAIR AREA
PARCELS 75(7), 5(7), 6(7), 41(7), AND 42(7)

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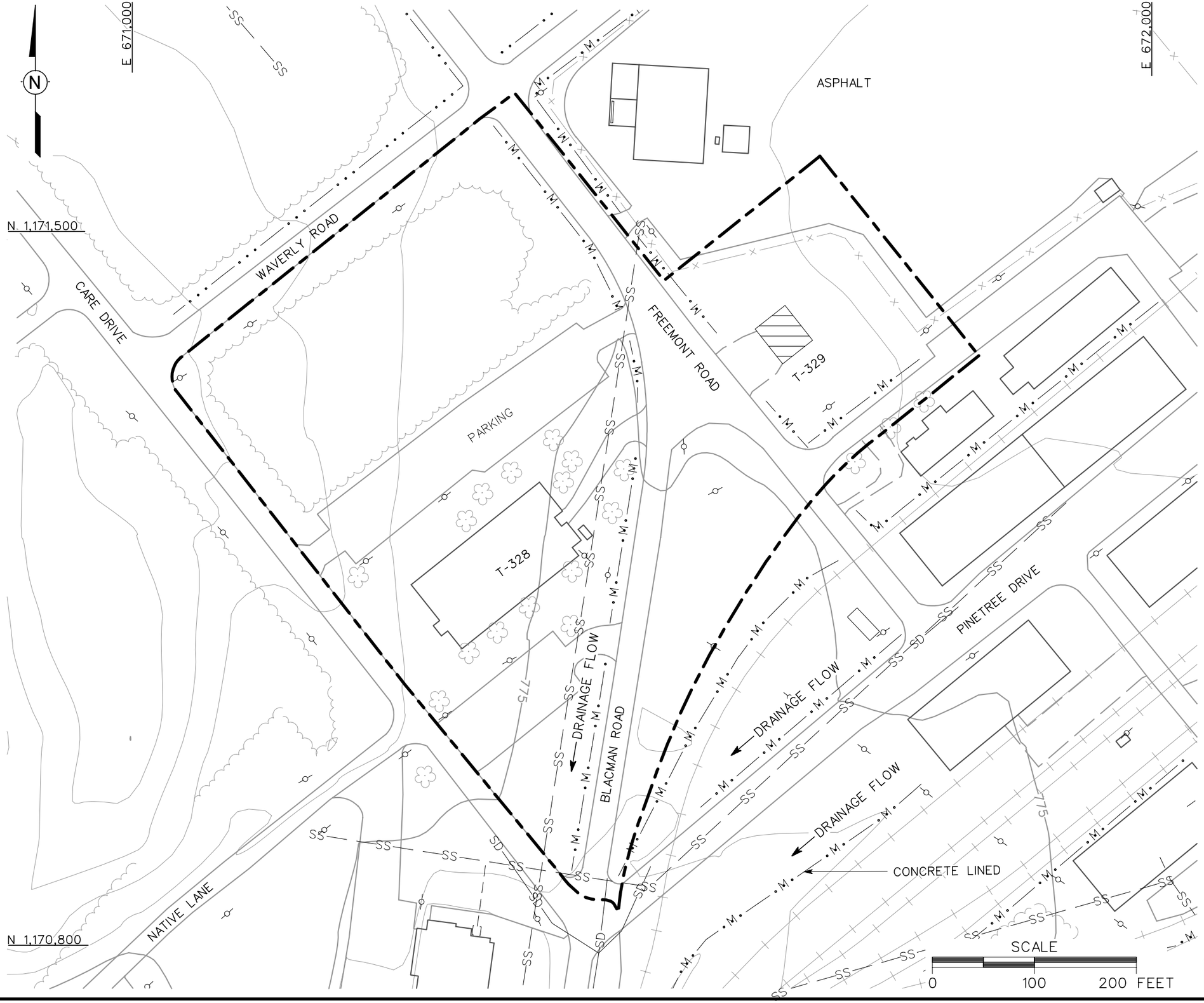

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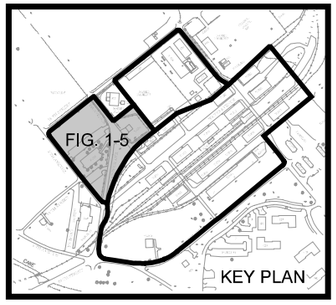

FIGURE 1-5
SITE MAP
BUILDINGS T-328 AND T-329
FORMER ORDNANCE MOTOR REPAIR AREA
PARCELS 75(7), 5(7), 6(7), 41(7), AND 42(7)

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Table 1-1

Buildings Located at the Former Ordnance Motor Repair Area
Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Building No.[a]	See Figure No.	Year Built[b]	Building Description
T-300	1-4	1917	Officers residence, "Berman house."
T-303	1-4	1942	Storage of military equipment issued to troops. Also contains Parcel 41(7), a 3,000-gallon heating oil underground storage tank (UST) at southwest end of building.
304	1-4	c	Loading dock and ramp.
T-305	1-4	1942	Rental equipment and warehouse storage.
T-308	1-4	1941	Commissary storage.
T-309	1-4	1941	Warehouse storage.
T-310	1-4	1941	Storage and general purpose.
T-311	1-4	1941	Defense Reutilization and Marketing Office Property Disposal used for storage space.
T-312	1-4	c	Loading dock and ramp.
T-313	1-4	c	Loading dock and ramp.
T-314	1-4	1941	Storage and general purpose.
T-315	1-4	1941	Furniture Management Housing Directorate - barracks furnishings storage.
T-316	1-4	1941	Storage and general purpose.
T-317	1-4	1948	Storage and general purpose.
T-318	1-4	1941	Storage and general purpose.
T-319	1-4	1941	Storage and general purpose.
T-320	1-4	1941	Storage and general purpose.
T-321	1-4	1941	Storage and general purpose.
T-322	1-4	1941	Warehouse storage.
T-323	1-4	1941	Storage and general purpose.
T-324	1-4	1941	Used as a barracks. Building also used as an administration building until 1976.
325	1-4	1941	Administration Building
326	1-3	1941	Possibly a former gas station that also contains two removed 500-gallon USTs (Parcel 5[7]). There are not any closure reports for the removal of the USTs, however, excavation sample results were found in the file from the removal of the USTs.
T-327	1-3	c	Only the concrete foundation remains. Originally a latrine, but appears to have been used to store petroleum products. This building reportedly burned down in 1996.
T-328	1-5	1941	Branch Exchange and classroom facility.
T-329	1-5	c	Only the concrete foundation remains; former military clothing store.
T-333	1-3	c	Only the concrete foundation remains. Reportedly used to store supplies for paint booth.
T-334	1-3	c	Only the concrete foundation remains. Originally a motor pool vehicle maintenance facility for engine change outs and air conditioning system repairs.
337	1-3	1941	Used for storage of building maintenance materials, supplies, and repair parts.
T-338	1-3	1941	Former Radiator Repair Shop; also used as the FTMC recycling center. Contains Parcel 6(7), closed-in-place UST and replacement 2,5000-gallon waste oil UST, and Parcel 42(7), a 2,500-gallon heating oil UST removed in 1996.
339	1-3	1943	Originally used for motor vehicle repair and a used battery collection building.
340	1-3	1991	Washrack and oil/water separator, rebuilt in 1991.

[a]Fort McClellan Building Number listing and descriptions provided by Fort McClellan Directorate of Engineering and Housing, May 13, 1998.
[b]*Fort McClellan Comprehensive Reuse Plan*, November 1997.
[c]Not listed in the Fort McClellan Comprehensive Reuse Plan.

FTMC - Fort McClellan.
UST - Underground storage tank.

Table 1-2

USTs Recorded at the Former Ordnance Motor Repair Area
Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Building Number	Parcel Number	Tank Contents	Date Installed	Tank Disposition	Tank Size (gal)	Tank Material	Date Closed/removed	Depth to Water (ft)	Piping Removed	Amount of Soil Removed	Sampled
T-303	41(7)	Heating oil	1978	Removed	3,000	Steel	1996	6	Yes	Approx. 24 yd^3	a
	41(7)	Heating oil	1996	Replacement	3,000	Fiberglass	Active	Unknown	No	NA	No
326	5(7)	Diesel	1975	Removed	500	Steel	1990-1991	Unknown	Unknown	Unknown	Yes
	5(7)	MOGAS	1975	Removed	500	Steel	1990-1991	Unknown	Unknown	Unknown	Yes
T-338	6(7)	Waste oil	1982	Closed in place	2,000	Steel	1994	Unknown	Yes	Approx. 3 yd^3	Yes
	6(7)	Waste oil	1994	Replacement	2,500	Fiberglass	Active	Unknown	No	Unknown	No
	42(7)	Heating oil	Unknown	Removed	2,500	Fiberglass	1996	8	Yes	Approx. 3.5 yd^3	a

[a]Only the excavated stockpile was sampled.
ft - Feet.
gal - Gallons.
MOGAS - Motor vehicle gasoline.
NA - Not applicable.
UST - Underground storage tank.
yd^3 - Cubic yards.

Former Building T-327 was originally a latrine, and the center wall was later removed (ESE, 1998) (Figure 1-3). It appears that this building was used for storing petroleum products at one time. It is reported that oils and paints were stored in the building and that the floor did not drain well (ESE, 1998). Oil stains were located on the floor around two drains. The building was observed during the EBS visual site inspection in early 1996. ESE visited the site in the fall of 1996 and observed that the building had been destroyed by fire. This building was reportedly connected to a 6-inch sanitary sewer line (ESE, 1998).

Former Building T-333 was located behind the Radiator Repair Shop, Building 338 (Figure 1-3). Although Building T-333 no longer exists, a concrete foundation is present with a storm drain in the center. Reportedly, the building stored paint supplies for a paint booth located in Building T-338 and flooded at least once when the sewer drain over flowed (ESE, 1998). The paint supplies were disposed as wastes in 1993 or 1994 (ESE, 1998). The flooding is the only reported incident at the building.

Former Building T-334 was originally a vehicle maintenance facility. Organized maintenance was performed on military vehicles at this location from an unknown date until 1991 (ESE, 1998) (Figure 1-3). The primary operations were engine replacements and air conditioning system repairs. A large all-wheel-drive balancing station was also located in the building. This building had a storm sewer connection, which could have been linked to the oil/water separator (OWS); however, the 1946 sewer map does not show the connection (ESE, 1998). The building was demolished in 1993 or 1994. The only remnant of the building is the concrete pad. There have not been any documented spills or releases at this area.

The fenced storage compound located southeast of Former Building T-334 was reportedly used to store spent solvents and oils used at the Former Fire Training Pit located across Elgin Avenue (formerly 3rd Avenue) (Figure 1-3). The Former Fire Training Pit was investigated under a separate SI for Parcel 77(7). A 1982 report estimated that 500 gallons of solvent were stored in 55-gallon drums at this location (ESE, 1998). A 1973 aerial photograph shows the fenced area to be unpaved (ESE, 1998). There have not been any documented releases at this site.

Building T-338 was the Radiator Repair Shop for the FOMRA and was used from an unknown date until 1991 (Figure 1-3). Radiators were drained and either repaired or taken out of service. A paint booth was located in this building and was used to store paint and paint thinners. A lead-

acid battery maintenance shop was also located in Building T-338. Although a sanitary sewer line was connected to the building, a floor drain discharged to the OWS, which then discharged to the storm sewer. Operations were terminated because the sump located outside the building continually filled with water. Radiator repair operations were relocated to the Consolidated Maintenance Facility (Buildings 349 and 350) in 1991 (ESE, 1998). Building T-338 was connected to the sanitary sewer via a 6-inch line. Potential discharges from this building include metals, battery fluids, paint, solvents, antifreeze, and motor oil.

The FTMC recycling center moved into Building T-338 in 1992 or 1993. The recycling center received paper, aluminum, glass, and cardboard (ESE, 1998) but ceased operations in 1998. A 2,500-gallon heating oil UST (Parcel 42[7]) was identified at this building but was removed in 1996 (Figure 1-3). Also, as part of the motor pool maintenance operation, a 2,000-gallon waste oil UST (Parcel 6[7]) was installed at Building T-338 in 1982 (Figure 1-3). The 2,000-gallon UST was closed in-place in 1994 and replaced with a 2,500-gallon UST. Chapter 2.0 presents details of the UST closure activities.

Building 339 (Figure 1-3) was used for motor vehicle repair. A 1982 memorandum regarding proper submittal procedures for used batteries instructed all military vehicle users to return used batteries to Building 339 for inspection (ESE, 1998). The building is connected to the sanitary sewer. Spills or releases have not been documented at this site.

Building 340 was constructed around 1941 with a baffle-type OWS as part of the Automotive Mechanical Repair Branch (Figure 1-3). A vehicle washrack was also located at Building 340. The washrack-OWS facility was rebuilt in 1991 and had a settling basin attached to a coalescing plate OWS that discharged to the sanitary sewer. It was reported in 1993 that the washrack drainage system appeared to be clogged and was not being used (EBS, 1998). However, during an IT site visit in November 1998, the washrack appeared to be operational.

Ground elevation at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), is approximately 775 feet above mean sea level. Most of the site has been paved, especially around the original FOMRA buildings (Figure 1-3). Grassed and gravelled areas are located around the warehouse buildings, southeast of Building T-303, and in the southwestern section around Building T-300 (Figure 1-4). The surface areas around Buildings T-328 and T-329 are grassed, except for the streets and parking lots shown on Figure 1-5. In the FOMRA area, surface water flows north or

northwest from Building 326 toward Buildings 335 and 337 (Figure 1-3). In the warehouse area (Figure 1-4), surface water flows to the southwest along man-made surface drainages.

2.0 Previous Investigations

An EBS was conducted by ESE to document current environmental conditions of all FTMC property (ESE, 1998). The study was to identify sites that, based on available information, have no history of contamination and comply with DOD guidance for fast-track cleanup at closing installations. The EBS also provides a baseline picture of FTMC properties by identifying and categorizing the properties by seven criteria:

1. Areas where no storage, release, or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent areas)

2. Areas where only release or disposal of petroleum products has occurred

3. Areas where release, disposal, and/or migration of hazardous substances has occurred, but at concentrations that do not require a removal or remedial response

4. Areas where release, disposal, and/or migration of hazardous substances has occurred, and all removal or remedial actions to protect human health and the environment have been taken

5. Areas where release, disposal, and/or migration of hazardous substances has occurred, and removal or remedial actions are underway, but all required remedial actions have not yet been taken

6. Areas where release, disposal, and/or migration of hazardous substances has occurred, but required actions have not yet been implemented

7. Areas that are not evaluated or require additional evaluation.

The EBS was conducted in accordance with the Community Environmental Response Facilitation Act (CERFA) (CERFA-Public Law 102-426) protocols and DOD policy regarding contamination assessment. Record searches and reviews were performed on all reasonably available documents from FTMC, the Alabama Department of Environmental Management (ADEM), the U.S. Environmental Protection Agency (EPA) Region IV, and Calhoun County, as well as a database search of Comprehensive Environmental Response, Compensation, and Liability Act-regulated substances, petroleum products, and Resource Conservation and Recovery Act-regulated facilities. Available historical maps and aerial photographs were reviewed to document historical land uses. Personal and telephone interviews of past and present FTMC employees and military personnel were conducted. In addition, visual site inspections

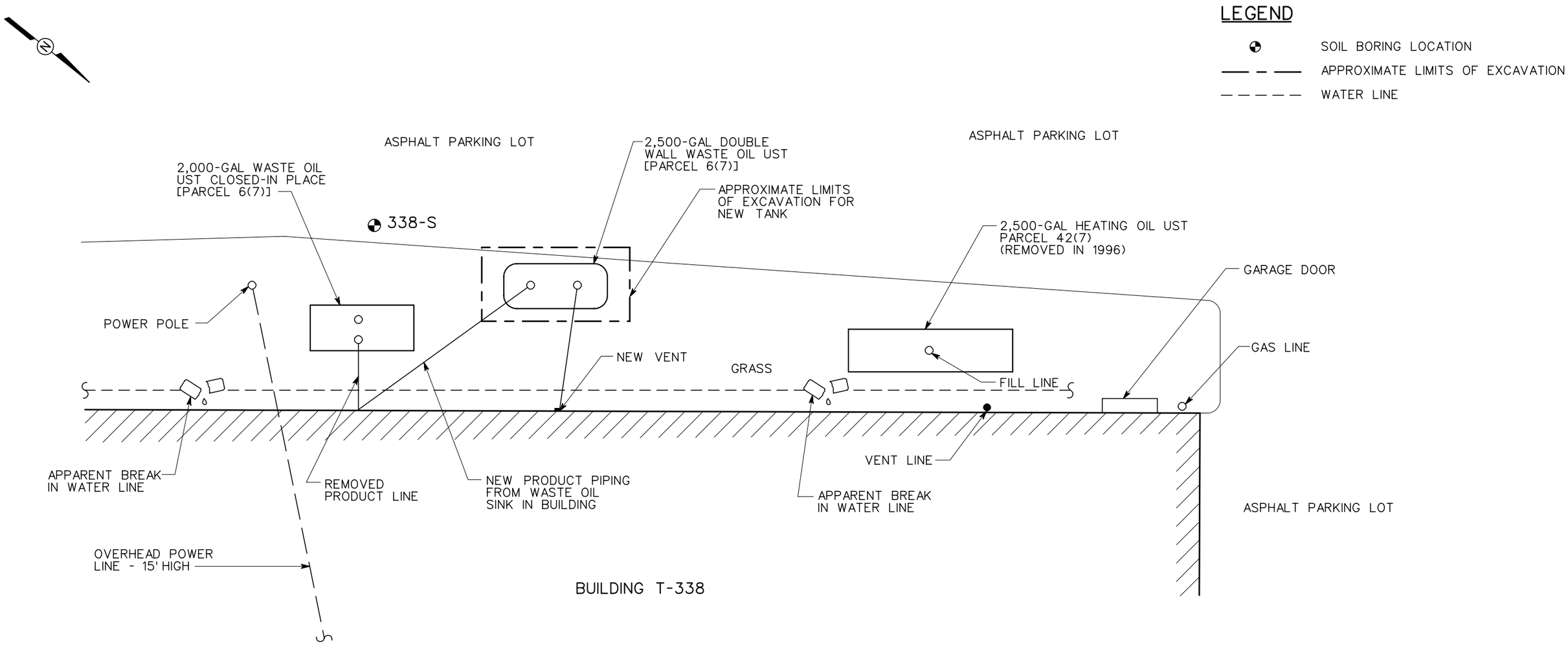
were conducted to verify conditions of specific property parcels. Previous investigations have been conducted at the FOMRA, as described in the following paragraphs.

3,000-gallon UST at Building T-303 (Parcel 41[7]). A 3,000-gallon heating oil UST (Parcel 41[7]) was located on the western end of Building T-303 (Figure 1-4) but was removed on April 29, 1996. Approximately 24 cubic yards of soil were excavated and stockpiled on site. A soil sample collected from the stockpile contained 179 milligrams per kilograms (mg/kg) of total petroleum hydrocarbons (TPH). Reportedly, no additional soil samples were collected because the remaining soil was removed (THETA Engineering, Inc., 1996a). Groundwater was encountered at approximately 6 feet below ground surface (bgs).

USTs at Building T-338 (Parcel 6[7]). A 2,000-gallon waste oil UST (Parcel 6[7]) was located on the western side of Building T-338, the former Radiator Repair Shop (Figure 1-3). The original UST was located adjacent to the wall footing and, therefore, was closed in place on May 5, 1994. The ADEM closure report is included in the UST summary report (IT, 1998c). A replacement 2,500-gallon waste oil UST (Parcel 6[7]) was installed in 1994.

Waste oil was placed into a sink in Building T-338 and gravity-fed via an underground plastic pipe to the 2,000-gallon waste oil UST. The piping was removed during the closure and apparent petroleum-contaminated soil was found in the excavation trench. The soil was removed and placed in a stockpile. Petroleum-contaminated soil, which was found where the pipe connected to the UST, was removed and added to the stockpile. The excavated soil removed from the top of the tank was also added to the stockpile. The stockpiled soil (approximately 3 cubic yards) was removed and thin-spread at a Base landfill (Braun Intertec Corporation [Braun], 1995). Since no holes were observed in the UST, the tank was abandoned in-place by filling with concrete slurry.

Only one soil boring was installed near the 2,000-gallon waste oil UST because of its close proximity to Building T-338 and overhead power lines. The soil boring was placed southwest of the closed-in-place UST (Figure 2-1). Weathered bedrock was encountered at 6 feet bgs and refusal was reached at 7.5 feet bgs (Braun, 1995). It was not possible to determine whether groundwater was encountered in the excavation because two water mains, one on each side of the closed tank, ruptured and flooded the excavation (Figure 2-1). According to FTMC, these water mains had been broken for several months (Braun, 1995). Water was encountered in the soil boring at approximately 5 feet bgs.



SOURCE: BRAUN INTERTEC CORPORATION REPORT "UST CLOSURE, SITE ASSESSMENT REPORT, FORT McCLELLAN BUILDING T-338, CALHOUN COUNTY, FORT McCLELLAN, ALABAMA", FEBRUARY 1995.

NOT TO SCALE

FIGURE 2-1
EXISTING AND REMOVED USTs AT BUILDING T-338, PARCELS 6(7) AND 42(7)
FORMER ORDNANCE MOTOR REPAIR AREA
PARCELS 75(7), 5(7), 6(7), 41(7), AND 42(7)
U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

IT CORPORATION
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DWG. NO.: ...\774645es.565 | PROJ. NO.: 774645
INITIATOR: T. WINTON | PROJ. MGR.: J. YACOUB
DRAFT. CHCK. BY: | ENGR. CHCK. BY: T. WINTON
DATE LAST REV.: | DRAWN BY:
STARTING DATE: 07/25/00 | DRAWN BY: D. BILLINGSLEY
09/05/01 10:41:38 AM DBILLNG c:\cadd\design\774645es.565

In addition to the soil boring sample (collected at 7.5 feet bgs) at Building T-338, two soil samples were collected from the piping trench (2 feet bgs and 4 feet bgs) and one soil sample was collected from the stockpile. These sample results are listed in Table 2-1. The UST removal contractor concluded from the sample results that a petroleum hydrocarbon release did occur; however, the vertical and horizontal extent of petroleum-contaminated soils was not determined during UST closure activities (Braun, 1995).

2,500-gallon UST at Building T-338 (Parcel 42[7]). A 2,500-gallon heating oil UST (Parcel 42[7]) was located on the western side of Building T-338, near the northwestern corner of the building (Figure 1-3). The UST was removed on March 5, 1996 and approximately 3.5 cubic yards of soil were excavated and stockpiled on site. A sample collected from the soil stockpile contained TPH at 128 mg/kg. Reportedly, no additional samples were collected because the remaining soil was removed (THETA Engineering, Inc., 1996b). Groundwater was encountered at 8 feet bgs.

500-gallon USTs at Building 326 (Parcel 5[7]). At one time, Building 326 had two USTs (Parcel 5[7]) and was possibly a former FTMC gas station. Reportedly, a 500-gallon MOGAS UST and a 500-gallon diesel fuel UST were located at this building. These USTs were removed sometime between 1990 and 1991. The sample data for the removed USTs at Building 326, Parcel 5(7), are listed in Table 2-2. Closure reports for the removal of the USTs are not available (ESE, 1998) and additional information is not available concerning the locations of the two USTs. During a November 1998 site visit by IT, the UST excavation locations were not found; however, the area inside the gate, to the north and west of the building, appeared to be the likely location of the previous USTs.

The FOMRA was identified as a Category 7 CERFA site: a parcel where potential site-specific chemicals were stored, and possibly released onto the site or to the environment, and/or were disposed on site property. Limited sampling and analysis of soil and water have not verified if there has been a potential release or disposal of potential site-specific chemicals on site. The FOMRA lacked adequate documentation and, therefore, required additional evaluation to determine the environmental condition of the parcel.

Table 2-1

Historical Sample Data for the 2,000-Gallon Waste Oil UST at Building T-338, Parcel 6(7)
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sampling Task	Sample Number	Sample Location/Description	Sample Date	Sample Depth (feet)	Analytical Parameters	
					Total Lead (mg/kg)	TPH (mg/kg)
Samples collected after UST and piping removal	94-0431-12	338-S	4/26/94	7.5	20	< 5
	94-0431-42	Stock pile	4/28/94	NA	120	650
	94-0431-20	Pipe trench "A"	4/28/94	2.0	140	4100
	94-0431-41	Pipe trench "B"	4/28/94	4.0	NR	NR

Source: Braun Intertec Corporation (Braun) 1995, *UST Closure Report, Site Assessment Report, Fort McClellan Building 338, Calhoun County, Fort McClellan, Alabama,* January.

mg/kg - Milligrams per kilogram.

NA - Not applicable.

NR - Analysis not requested.

TPH - Total petroleum hydrocarbons.

UST - Underground storage tank.

Table 2-2

Historical Sample Data for UST Removal at Building 326, Parcel 5(7)
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample ID No.	Sample Location	Sample Date	Pb-TCLP (mg/L)	Pb-Total (mg/kg)	TPH (mg/kg)	Benzene (µg/kg)	Ethyl Benzene (µg/kg)	Toluene (µg/kg)	Xylenes (µg/kg)
C4480	Top half of tank	4/18/91	ND	2.2	1900	ND	ND	ND	ND
C4481	South side of tank	4/18/91	ND	54	530	ND	ND	ND	ND
C4482	North side of tank	4/18/91	ND	15	360	ND	110	7.8	82
C4483	North wall of tank	4/17/91	ND	15	300	ND	ND	ND	ND
C4484	East wall of tank	4/17/91	ND	18	420	ND	ND	ND	ND
C4485	West wall of tank	4/17/91	ND	26	140	ND	ND	ND	ND
C4486	Bottom hole of tank	4/17/91	ND	19	140	ND	ND	ND	ND
C4487	South side of tank	4/17/91	ND	20	ND	ND	ND	ND	ND

µg/kg - Micrograms per kilogram.
mg/kg - Milligrams per kilogram.
mg/L - Milligrams per liter.
ND - Not detected.
Pb - Lead.
TCLP - Toxicity characteristic leaching procedure.
TPH - Total petroleum hydrocarbons.
UST - Underground storage tank.

3.0 Current Site Investigation Activities

This chapter summarizes SI activities conducted by IT at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), including environmental sampling and analysis, and groundwater monitoring well installation activities.

3.1 Environmental Sampling

The environmental sampling performed during the SI at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), included the collection of surface and depositional soil samples, subsurface soil samples, surface water and sediment samples, and groundwater samples for chemical analysis. The sample locations were determined by observing site physical characteristics during a site walkover, and by reviewing historical documents pertaining to activities conducted at the site. The sample locations, media, and rationale are summarized in Table 3-1. Sampling locations are shown on Figure 3-1. Samples were submitted for laboratory analyses of site-related parameters listed in Section 3.3.

3.1.1 Surface and Depositional Soil Sampling

Surface soil samples were collected from 60 locations and depositional soil samples were collected from 5 locations at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7). Soil sampling locations and rationale are presented in Table 3-1. Sampling locations are shown on Figure 3-1. Sample designations and quality assurance/quality control (QA/QC) samples are listed in Table 3-2. Soil sampling locations were determined in the field by the on-site geologist based on the sampling rationale, presence of surface structures, site topography, and buried utilities.

Sample Collection. Surface and depositional soil samples were collected using either a direct-push technology (DPT) sampling system or a 3-inch diameter stainless-steel hand auger using the methodology specified in Section 4.9.1.1 of the SAP (IT, 2000a). Surface and depositional soil samples were collected by first removing surface debris, such as rocks and vegetation, from the immediate sample area. The soil was collected with the sampling device and screened with a photoionization detector (PID) in accordance with Section 4.7.1.1 of the SAP (IT, 2000a). Samples for volatile organic compound (VOC) analysis were collected directly from the sampler with three EnCore® samplers. The remaining portion of the sample was transferred to a clean stainless-steel bowl, homogenized, and placed in the appropriate sample containers. The samples were analyzed for the parameters listed in Table 3-2 using methods outlined in Section 3.3. Sample collection logs are included in Appendix A.

FIGURE 3-1
SAMPLE LOCATION MAP
FORMER ORDNANCE MOTOR REPAIR AREA
PARCELS 75(7), 5(7), 6(7), 41(7), AND 42(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

IT CORPORATION
A Member of The IT Group

STARTING DATE: 07/25/00 | DATE LAST REV.: | DRAFT. CHCK. BY: | INITIATOR: T. WINTON | DWG. NO.: ...\774645es.566
DRAWN BY: D. BILLINGSLEY | DRAWN BY: | ENGR. CHCK. BY: S. MORAN | PROJ. MGR.: J. YACOUB | PROJ. NO.: 774645

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Table 3-1

Sampling Locations and Rationale
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Media	Sample Location Rationale
PPMP-75-DEP01	Depositional soil	A depositional soil sample was collected from the man-made surface drain west of the northern corner of Former Building T-329. Sampling location is a low elevation area where surface water runoff could collect, and potentially percolate into the substratum or deposit suspended or dissolved materials after evaporation.
PPMP-75-DEP02	Depositional soil	A depositional soil sample was collected from the northeastern end of the concrete-lined man-made ditch, west of Building T-338. Sample location is a low elevation area where surface water runoff could collect and potentially percolate into the substratum or deposit suspended or dissolved materials.
PPMP-75-DEP03	Depositional soil	A depositional soil sample was collected from the man-made surface drain northeast of Former Building T-334. Sampling location is a low elevation area where surface water runoff could collect, and potentially percolate into the substratum or deposit suspended or dissolved materials after evaporation.
PPMP-75-DEP04	Depositional soil	A depositional soil sample was collected at the man-made surface drain at the western end of Building T-303. Sampling location is a low elevation area where surface water runoff could collect, and potentially percolate into the substratum or deposit suspended or dissolved materials.
PPMP-75-DEP05	Depositional soil	A depositional soil sample was collected at the man-made surface drain east of Building T-328. Sampling location is a low elevation area where surface water runoff could collect, and potentially percolate into the substratum or deposit suspended or dissolved materials.
PPMP-75-GP04	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected adjacent (southeastern side) to Building 337, which is used for general maintenance and storage. This area had visible oil stains and various mechanical equipment outside of the building during site visit by IT in June 1998.
PPMP-75-GP05	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected in front of the western end sliding door of Building 337. This building is used for storage and had visible evidence of mechanical equipment near the building during the IT site visit in June 1998.
PPMP-75-GP06	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected between Building 337 and the man-made surface drain that runs parallel to 18th Sreet. This building is used for storage. Mechanical equipment was stored beside the building during the IT site visit June 1998.
PPMP-75-GP07	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected adjacent (southern side) to Building 337. This building is used for general maintenance and storage. This area had visible oil stains and a variety of mechanical equipment outside the building during the IT site visit in June 1998.
PPMP-75-GP08	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected adjacent (western side) to Building 326. Two 500-gallon underground storage tanks (UST) were reportedly located near Building 326.
PPMP-75-GP09	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected adjacent (northern side) to Building 326. Two 500-gallon USTs were reportedly located near Building 326.
PPMP-75-GP10	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected adjacent (southern side) to Building 326. Two 500-gallon USTs were reportedly located near Building 326.
PPMP-75-GP11	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected on the western side of Former Building T-327 (southeast of Building 333).
PPMP-75-GP12	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected adjacent (northern side) to former Building T-327. This building was used to store petroleum products and oil stains were reported at this building during the environmental baseline survey in 1996.

Table 3-1

Sampling Locations and Rationale
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Media	Sample Location Rationale
PPMP-75-GP13	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected adjacent (northwest) to former Building T-333. This building was used to store paint supplies.
PPMP-75-GP14	Subsurface Soil	A subsurface soil sample was collected adjacent (western side) to the abandoned 2,000-gallon waste oil UST that was closed in place at Building T-338.
PPMP-75-GP15	Subsurface Soil	A susbsurface soil sample was collected adjacent (eastern side) to the abandoned 2,000-gallon waste oil UST that was closed in place at Building T-338.
PPMP-75-GP16	Subsurface Soil	A subsurface soil sample was collected adjacent (western side) to the active 2,500-gallon waste oil UST at Building T-338.
PPMP-75-GP17	Subsurface Soil	A subsurface soil sample was collected adjacent (eastern side) to the active 2,500-gallon waste oil UST at Building T-338.
PPMP-75-GP18	Subsurface Soil	A subsurface soil sample was collected adjacent (southern side) to the removed 2,500-gallon heating oil UST at Building T-338.
PPMP-75-GP19	Subsurface Soil	A subsurface soil sample was collected adjacent (western side) to the removed 2,500-gallon heating oil UST at Building T-338.
PPMP-75-GP20	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected in front of the garage doors at Building T-338.
PPMP-75-GP21	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected on the northern end of Building T-338 in front of large sliding doors, near the gate to Waverly Road (formerly 18th Street). This sample location is topographically downgradient of the removed 2,500-gallon heating oil UST [Parcel 42(7)] and the closed-in-place 2,000-gallon waste oil UST (Parcel 6[7]).
PPMP-75-GP22	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected on the western side of Building 339.
PPMP-75-GP23	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected northwest of the oil-water separator and Building 340 washrack.
PPMP-75-GP24	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected adjacent (southeastern side) to the oil-water separator. These are potential source area samples to check the integrity of the oil-water separator system.
PPMP-75-GP25	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected southeast of Building 340 washrack. Two subsurface soil samples were collected at this location because of elevated PID readings.
PPMP-75-GP26	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected near the southeastern corner of Building 339.
PPMP-75-GP27	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected at the northern corner of Building 339 in the northeastern corner of the site. This building was used for vehicle repairs and possiby for storage of used batteries.
PPMP-75-GP28	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected on the northern side of former Building T-334. This former building was used for small engine repairs and air-conditioning system repairs. The building was demolished in 1993 or 1994.

Table 3-1

Sampling Locations and Rationale
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Media	Sample Location Rationale
PPMP-75-GP29	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected adjacent to the gate of the fenced storage compound area southeast of Building T-334.
PPMP-75-GP30	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected in the center of the fenced storage compound area southeast of Building T-334.
PPMP-75-GP31	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors at the western corner of warehouse Building T-319.
PPMP-75-GP32	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors near the northwestern corner of warehouse Building T-319.
PPMP-75-GP33	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors near the midpoint of the northwestern side of warehouse Building T-320.
PPMP-75-GP34	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors at the northern corner of warehouse Building T-320.
PPMP-75-GP35	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors near the western corner of warehouse Building T-321.
PPMP-75-GP36	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors on the western side of warehouse Building T-321 near the northern corner.
PPMP-75-GP37	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors at the western corner of warehouse Building T-322.
PPMP-75-GP38	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors on the western side of warehouse Building T-322 near the northern corner.
PPMP-75-GP39	Subsurface Soil	A subsurface soil sample was collected west of Building T-314, downgradient of warehouses near Building T-314.
PPMP-75-GP40	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors east of the southern corner of warehouse Building T-314.
PPMP-75-GP41	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors near the midpoint of the southeastern side of warehouse Building T-314.
PPMP-75-GP42	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors east of the southern corner of warehouse Building T-315.
PPMP-75-GP43	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors on the southeastern side of warehouse Building T-315 near the eastern corner.
PPMP-75-GP44	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the northern corner of the railroad ramps (T-313) in front of the doors near the midpoint of the southeastern side of warehouse Building T-316.
PPMP-75-GP45	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors near the eastern corner of warehouse Building T-316.
PPMP-75-GP46	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors east of the southern corner of warehouse Building T-317.
PPMP-75-GP47	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors south of the eastern corner of warehouse Building T-317.

Table 3-1

Sampling Locations and Rationale
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Media	Sample Location Rationale
PPMP-75-GP48	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors north of the western corner of warehouse Building T-323.
PPMP-75-GP49	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors west of the northern corner of warehouse Building T-323.
PPMP-75-GP50	Subsurface Soil Groundwater	Subsurface soil and groundwater samples were collected northeast and upgradient of Building T-318.
PPMP-75-GP51	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors on the southeastern side of warehouse Building T-318.
PPMP-75-GP52	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors adjacent to the southeastern side of warehouse Building T-318.
PPMP-75-GP53	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors near the midpoint of the northwestern side of warehouse Building T-311.
PPMP-75-GP54	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors near the northern corner of warehouse Building T-311.
PPMP-75-GP55	Subsurface Soil Groundwater	Subsurface soil and groundwater samples were collected northeast of Building T-311, upgradient of the warehouse area.
PPMP-75-GP56	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors at warehouse Building T-305.
PPMP-75-GP57	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors at warehouse Building T-305.
PPMP-75-GP58	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors at warehouse Building T-308.
PPMP-75-GP59	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors near the midpoint of the northwestern side of warehouse Building T-309.
PPMP-75-GP60	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors west of the northern corner of warehouse Building T-309.
PPMP-75-GP61	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors near the midpoint of the northwestern side of warehouse Building T-310.
PPMP-75-GP62	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the railroad ramps in front of the doors west of the northern corner of warehouse Building T-310.
PPMP-75-GP63	Subsurface Soil	A subsurface soil sample was collected northwest of an adjacent to the 3,000-gallon UST located on the western end of Building T-303. A UST was removed and replaced with a new UST in 1996.
PPMP-75-GP64	Subsurface Soil	A subsurface soil sample was collected west of and adjacent to the 3,000-gallon UST located on the western end of Building T-303. A UST was removed and replaced with a new UST in 1996.
PPMP-75-GP65	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected on the northern side of Building T-303C near the storm drain in front of the large sliding doors.
PPMP-75-GP66	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected on the northwestern side of Building T-303B in front of the large sliding doors.

Table 3-1

Sampling Locations and Rationale
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Media	Sample Location Rationale
PPMP-75-GP67	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected upgradient and east of the northern corner of Building T-303.
PPMP-75-GP68	Subsurface Soil Groundwater	Subsurface soil and groundwater samples were collected on the southwestern side of Building T-305.
PPMP-75-GP69	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected east-northeast of Building T-300 and south of Building T-305 . This area appears to be the site of a former building.
PPMP-75-GP70	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected at the southwestern corner of the warehouse area and west of Building T-300.
PPMP-75-GP71	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected at the southwestern end of the warehouse area near Blacman Road (formerly MacArthur Avenue). This sample location is downgradient of Building T-314 and the warehouse area.
PPMP-75-GP72	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected north of Building T-328, west of Fremont Road (formerly 4th Avenue) and Blacman Road (formerly MacArthur Avenue).
PPMP-75-GP73	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected east of Building T-328, southeast of the loading dock.
PPMP-75-GP74	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected south of Former Building T-329, east of Fremont Road (formerly 4th Avenue).
PPMP-75-GP75	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected near the southwestern corner of Building T-303C. This sample location is downgradient of the replaced 3,000-gallon heating oil UST (Parcel 41[7]) and Building T-303.
PPMP-75-SW/SD01	Surface Water Sediment	Surface water and sediment samples were collected from the man-made surface drain at the southwestern end of Building T-321 toward Building 325. Sample location is a potential downgradient sink for the site.
PPMP-75-SW/SD02	Surface Water Sediment	Surface water and sediment samples were collected from the man-made surface drain at the northeastern corner of Building T-314. Sample location is a potential downgradient sink for the site.
PPMP-75-SW/SD03	Surface Water Sediment	Surface water and sediment samples were collected from the man-made surface drain at the southern corner of Building T-315. Sample location is a potential downgradient sink for the site.
PPMP-75-SW/SD04	Surface Water Sediment	Surface water and sediment samples were collected from the man-made surface drain at the southern corner of Building T-316. Sample location is a potential downgradient sink for the site.
PPMP-75-SW/SD05	Surface Water Sediment	Surface water and sediment samples were collected from the man-made surface drain at the southern corner of Building T-317. Sample location is a potential downgradient sink for the site.
PPMP-75-SW/SD06	Surface Water Sediment	Surface water and sediment samples were collected from the man-made surface drain at the southwestern end of warehouse Building T-308. Sample location is a potential downgradient sink for the site.
PPMP-75-SW/SD07	Surface Water Sediment	Surface water and sediment samples were collected from the man-made surface drain at the southwestern end of Building T-310 toward Building T-309. Sample location is a potential downgradient sink for the site.
PPMP-75-SW/SD08	Surface Water Sediment	Surface water and sediment samples were collected from the man-made surface drain between Buildings T-310 and T-311. Sample location is a potential downgradient sink for the site.

Table 3-1

Sampling Locations and Rationale
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Media	Sample Location Rationale
PPMP-75-SW/SD09	Surface Water Sediment	Surface water and sediment samples were collected from the man-made surface drain at northeastern end of Building T-323. Sample location is a potential downgradient sink for the site.
PPMP-75-SW/SD10	Surface Water Sediment	Surface water and sediment samples were collected from the man-made surface drain at the southern corner of Building 325. Sample location is a potential downgradient sink for the site.
FTP-77-SW/SD02	Surface Water Sediment	Surface water and sediment samples were collected from a small downgradient stream along the eastern parcel boundary near the railroad tracks northeast of Building T-323 to determine if contamination was transported via the stream from offsite.

Table 3-2

Soil Sample Designations and QA/QC Samples
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	Sample Depth (ft bgs)	QA/QC Samples			Analytical Suite
			Field Duplicates	Field Splits	MS/MSD	
PPMP-75-DEP01	PPMP-75-DEP01-DEP-KJ0165-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
PPMP-75-DEP02	PPMP-75-DEP02-DEP-KJ0159-REG	0-1.0			PPMP-75-DEP02-DEP-KJ0159-MS PPMP-75-DEP02-DEP-KJ0159-MSD	TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
PPMP-75-DEP03	PPMP-75-DEP03-DEP-KJ0160-REG	0-1.0	PPMP-75-DEP03-DEP-KJ0161-FD	PPMP-75-DEP03-DEP-KJ0162-FS		TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
PPMP-75-DEP04	PPMP-75-DEP04-DEP-KJ0163-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
PPMP-75-DEP05	PPMP-75-DEP05-DEP-KJ0164-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
PPMP-75-GP04	PPMP-75-GP04-SS-KJ0009-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP04-DS-KJ0010-REG	4.0-6.0				
PPMP-75-GP05	PPMP-75-GP05-SS-KJ0011-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP05-DS-KJ0012-REG	3.0-4.5				
PPMP-75-GP06	PPMP-75-GP06-SS-KJ0013-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP06-DS-KJ0014-REG	3.0-6.0				
PPMP-75-GP07	PPMP-75-GP07-SS-KJ0015-REG	0-1.0			PPMP-75-GP07-SS-KJ0015-MS PPMP-75-GP07-SS-KJ0015-MSD	TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP07-DS-KJ0016-REG	3.0-6.0				
PPMP-75-GP08	PPMP-75-GP08-SS-KJ0017-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP08-DS-KJ0018-REG	5.0-8.0				
PPMP-75-GP09	PPMP-75-GP09-SS-KJ0019-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP09-DS-KJ0020-REG	2.0-4.0				
PPMP-75-GP10	PPMP-75-GP10-SS-KJ0021-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP10-DS-KJ0022-REG	2.0-3.0	PPMP-75-GP10-DS-KJ0023-FD	PPMP-75-GP10-DS-KJ0024-FS		
PPMP-75-GP11	PPMP-75-GP11-SS-KJ0025-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP11-DS-KJ0026-REG	3.0-5.0				

Table 3-2

Soil Sample Designations and QA/QC Samples
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	Sample Depth (ft bgs)	QA/QC Samples			Analytical Suite
			Field Duplicates	Field Splits	MS/MSD	
PPMP-75-GP12	PPMP-75-GP12-SS-KJ0027-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP12-DS-KJ0028-REG	1.0-3.0				
PPMP-75-GP13	PPMP-75-GP13-SS-KJ0029-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP13-DS-KJ0030-REG	10.0-12.0				
PPMP-75-GP14	PPMP-75-GP14-DS-KJ0031-REG	5.0-7.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
PPMP-75-GP15	PPMP-75-GP15-DS-KJ0032-REG	3.0-6.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
PPMP-75-GP16	PPMP-75-GP16-DS-KJ0033-REG	3.0-6.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
PPMP-75-GP17	PPMP-75-GP17-DS-KJ0034-REG	5.0-7.0			PPMP-75-GP17-DS-KJ0034-MS PPMP-75-GP17-DS-KJ0034-MSD	TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
PPMP-75-GP18	PPMP-75-GP18-DS-KJ0035-REG	6.0-8.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
PPMP-75-GP19	PPMP-75-GP19-DS-KJ0036-REG	1.0-3.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
PPMP-75-GP20	PPMP-75-GP20-SS-KJ0037-REG	0-1.0			PPMP-75-GP20-SS-KJ0037-MS PPMP-75-GP20-SS-KJ0037-MSD	TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP20-DS-KJ0038-REG	6.0-9.0				
PPMP-75-GP21	PPMP-75-GP21-SS-KJ0039-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP21-DS-KJ0040-REG	8.5-10.5				
PPMP-75-GP22	PPMP-75-GP22-SS-KJ0041-REG	1.0-2.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP22-DS-KJ0042-REG	3.0-6.0	PPMP-75-GP22-DS-KJ0043-FD	PPMP-75-GP22-DS-KJ0044-FS		
PPMP-75-GP23	PPMP-75-GP23-SS-KJ0045-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP23-DS-KJ0046-REG	3.0-6.0			PPMP-75-GP23-DS-KJ0046-MS PPMP-75-GP23-DS-KJ0046-MSD	
PPMP-75-GP24	PPMP-75-GP24-SS-KJ0047-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP24-DS-KJ0048-REG	5.0-7.0				

Table 3-2

Soil Sample Designations and QA/QC Samples
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	Sample Depth (ft bgs)	QA/QC Samples			Analytical Suite
			Field Duplicates	Field Splits	MS/MSD	
PPMP-75-GP25	PPMP-75-GP25-SS-KJ0049-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP25-DS-KJ0050-REG	10.0-12.0				
	PPMP-75-GP25-DS-KJ0157-REG	15.0-17.0				
PPMP-75-GP26	PPMP-75-GP26-SS-KJ0051-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP26-DS-KJ0052-REG	6.0-9.0				
PPMP-75-GP27	PPMP-75-GP27-SS-KJ0053-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP27-DS-KJ0054-REG	9.0-12.0				
PPMP-75-GP28	PPMP-75-GP28-SS-KJ0055-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP28-DS-KJ0056-REG	2.0-5.0				
PPMP-75-GP29	PPMP-75-GP29-SS-KJ0057-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP29-DS-KJ0058-REG	3.0-5.0				
PPMP-75-GP30	PPMP-75-GP30-SS-KJ0059-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP30-DS-KJ0060-REG	6.0-8.0				
PPMP-75-GP31	PPMP-75-GP31-SS-KJ0061-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP31-DS-KJ0062-REG	1.0-3.0				
PPMP-75-GP32	PPMP-75-GP32-SS-KJ0063-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP32-DS-KJ0064-REG	1.0-3.0				
PPMP-75-GP33	PPMP-75-GP33-SS-KJ0065-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP33-DS-KJ0066-REG	1.0-2.0				
PPMP-75-GP34	PPMP-75-GP34-SS-KJ0067-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP34-DS-KJ0068-REG	1.0-3.0				
PPMP-75-GP35	PPMP-75-GP35-SS-KJ0069-REG	0-1.0	PPMP-75-GP35-SS-KJ0070-FD	PPMP-75-GP35-SS-KJ0071-FS		TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP35-DS-KJ0072-REG	1.0-3.0				
PPMP-75-GP36	PPMP-75-GP36-SS-KJ0073-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP36-DS-KJ0074-REG	1.0-3.0				

Table 3-2

Soil Sample Designations and QA/QC Samples
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	Sample Depth (ft bgs)	QA/QC Samples: Field Duplicates	QA/QC Samples: Field Splits	QA/QC Samples: MS/MSD	Analytical Suite
PPMP-75-GP37	PPMP-75-GP37-SS-KJ0075-REG	0-1.0	PPMP-75-GP37-SS-KJ0076-FD			TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP37-DS-KJ0077-REG	1.0-3.0				
PPMP-75-GP38	PPMP-75-GP38-SS-KJ0078-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP38-DS-KJ0079-REG	1.0-4.0				
PPMP-75-GP39	PPMP-75-GP39-DS-KJ0080-REG	3.0-6.0	PPMP-75-GP39-DS-KJ0081-FD			TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
PPMP-75-GP40	PPMP-75-GP40-SS-KJ0082-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP40-SS-KJ0082R-REG*	0-1.0				
	PPMP-75-GP40-DS-KJ0083-REG	5.0-8.0				
	PPMP-75-GP40-DS-KJ0083R-REG*	5.0-8.0				
PPMP-75-GP41	PPMP-75-GP41-SS-KJ0084-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP41-DS-KJ0085-REG	3.0-6.0	PPMP-75-GP41-DS-KJ0086-FD			
PPMP-75-GP42	PPMP-75-GP42-SS-KJ0087-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP42-DS-KJ0088-REG	3.0-6.0				
PPMP-75-GP43	PPMP-75-GP43-SS-KJ0089-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP43-DS-KJ0090-REG	3.0-6.0				
PPMP-75-GP44	PPMP-75-GP44-SS-KJ0091-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP44-DS-KJ0092-REG	3.0-6.0			PPMP-75-GP44-DS-KJ0092-MS PPMP-75-GP44-DS-KJ0092-MSD	
PPMP-75-GP45	PPMP-75-GP45-SS-KJ0093-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP45-DS-KJ0094-REG	1.0-4.0				
PPMP-75-GP46	PPMP-75-GP46-SS-KJ0095-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP46-DS-KJ0096-REG	3.0-6.0	PPMP-75-GP46-DS-KJ0097-FD	PPMP-75-GP46-DS-KJ0098-FS		
PPMP-75-GP47	PPMP-75-GP47-SS-KJ0099-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP47-DS-KJ0100-REG	1.0-3.0				

Table 3-2

Soil Sample Designations and QA/QC Samples
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	Sample Depth (ft bgs)	QA/QC Samples: Field Duplicates	QA/QC Samples: Field Splits	QA/QC Samples: MS/MSD	Analytical Suite
PPMP-75-GP48	PPMP-75-GP48-SS-KJ0101-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP48-DS-KJ0102-REG	2.0-4.0				
PPMP-75-GP49	PPMP-75-GP49-SS-KJ0103-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP49-DS-KJ0104-REG	6.0-9.0				
PPMP-75-GP50	PPMP-75-GP50-DS-KJ0105-REG	3.0-6.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
PPMP-75-GP51	PPMP-75-GP51-SS-KJ0106-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP51-DS-KJ0107-REG	4.0-7.0				
PPMP-75-GP52	PPMP-75-GP52-SS-KJ0108-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP52-DS-KJ0109-REG	3.0-6.0				
PPMP-75-GP53	PPMP-75-GP53-SS-KJ0110-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP53-DS-KJ0111-REG	2.0-4.0	PPMP-75-GP53-DS-KJ0116-FD	PPMP-75-GP53-DS-KJ0117-FS		
PPMP-75-GP54	PPMP-75-GP54-SS-KJ0112-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP54-DS-KJ0113-REG	1.0-4.0	PPMP-75-GP54-DS-KJ0114-FD			
PPMP-75-GP55	PPMP-75-GP55-DS-KJ0115-REG	3.0-6.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
PPMP-75-GP56	PPMP-75-GP56-SS-KJ0118-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP56-SS-KJ0118R-REG*	0-1.0				
	PPMP-75-GP56-DS-KJ0119-REG	3.0-6.0				
	PPMP-75-GP56-DS-KJ0119R-REG*	3.0-6.0				
PPMP-75-GP57	PPMP-75-GP57-SS-KJ0120-REG	0-1.0			PPMP-75-GP57-SS-KJ0120-MS	TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP57-SS-KJ0120R-REG*	0-1.0			PPMP-75-GP57-SS-KJ0120-MSD	
	PPMP-75-GP57-DS-KJ0121-REG	1.0-3.0				
	PPMP-75-GP57-DS-KJ0121R-REG*	1.0-3.0				
PPMP-75-GP58	PPMP-75-GP58-SS-KJ0122-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP58-SS-KJ0122R-REG*	0-1.0				
	PPMP-75-GP58-DS-KJ0123-REG	4.0-7.0				
	PPMP-75-GP58-DS-KJ0123R-REG*	4.0-7.0				
PPMP-75-GP59	PPMP-75-GP59-SS-KJ0124-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP59-SS-KJ0124R-REG*	0-1.0				
	PPMP-75-GP59-DS-KJ0125-REG	3.0-6.0				
	PPMP-75-GP59-DS-KJ0125R-REG*	3.0-6.0				

Table 3-2

Soil Sample Designations and QA/QC Samples
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	Sample Depth (ft bgs)	QA/QC Samples: Field Duplicates	QA/QC Samples: Field Splits	QA/QC Samples: MS/MSD	Analytical Suite
PPMP-75-GP60	PPMP-75-GP60-SS-KJ0126-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP60-SS-KJ0126R-REG*	0-1.0				
	PPMP-75-GP60-DS-KJ0127-REG	3.0-6.0				
	PPMP-75-GP60-DS-KJ0127R-REG*	3.0-6.0				
PPMP-75-GP61	PPMP-75-GP61-SS-KJ0128-REG	0-1.0	PPMP-75-GP61-SS-KJ0129-FD			TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP61-SS-KJ0128R-REG*	0-1.0	PPMP-75-GP61-SS-KJ0129R-FD			
	PPMP-75-GP61-DS-KJ0130-REG	3.0-6.0				
	PPMP-75-GP61-DS-KJ0130R-REG*	3.0-6.0				
PPMP-75-GP62	PPMP-75-GP62-SS-KJ0132-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP62-SS-KJ0132R-REG*	0-1.0				
	PPMP-75-GP62-DS-KJ0131-REG	3.0-6.0				
	PPMP-75-GP62-DS-KJ0131R-REG*	3.0-6.0				
PPMP-75-GP63	PPMP-75-GP63-DS-KJ0133-REG	1.0-3.0	PPMP-75-GP63-DS-KJ0134-FD			TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP63-DS-KJ0133R-REG*	1.0-3.0	PPMP-75-GP63-DS-KJ0134R-FD			
PPMP-75-GP64	PPMP-75-GP64-DS-KJ0135-REG	3.0-6.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP64-DS-KJ0135R-REG*	3.0-6.0				
PPMP-75-GP65	PPMP-75-GP65-SS-KJ0136-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP65-SS-KJ0136R-REG*	0-1.0				
	PPMP-75-GP65-DS-KJ0137-REG	2.0-5.0				
	PPMP-75-GP65-DS-KJ0137R-REG*	2.0-5.0				
PPMP-75-GP66	PPMP-75-GP66-SS-KJ0138-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP66-DS-KJ0139-REG	1.5-3.5				
PPMP-75-GP67	PPMP-75-GP67-SS-KJ0140-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP67-DS-KJ0141-REG	2.0-4.0				
PPMP-75-GP68	PPMP-75-GP68-DS-KJ0142-REG	3.0-5.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
PPMP-75-GP69	PPMP-75-GP69-SS-KJ0143-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP69-DS-KJ0144-REG	1.0-3.0				
PPMP-75-GP70	PPMP-75-GP70-SS-KJ0145-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP70-DS-KJ0146-REG	4.0-7.0				

Table 3-2

Soil Sample Designations and QA/QC Samples
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	Sample Depth (ft bgs)	QA/QC Samples			Analytical Suite
			Field Duplicates	Field Splits	MS/MSD	
PPMP-75-GP71	PPMP-75-GP71-SS-KJ0148-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP71-DS-KJ0149-REG	1.0-3.0				
PPMP-75-GP72	PPMP-75-GP72-SS-KJ0150-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP72-DS-KJ0151-REG	3.0-6.0	PPMP-75-GP72-DS-KJ0147-FD			
PPMP-75-GP73	PPMP-75-GP73-SS-KJ0152-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP73-DS-KJ0153-REG	3.0-6.0				
PPMP-75-GP74	PPMP-75-GP74-SS-KJ0154-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP74-DS-KJ0155-REG	1.0-3.0				
PPMP-75-GP75	PPMP-75-GP75-SS-KJ0156-REG	0-1.0				TCL VOCs, TCL SVOCs, TAL Metals, PCBs, Chlorinated Pesticides, Chlorinated Herbicides, Organophosphorus Pesticides
	PPMP-75-GP75-DS-KJ0158-REG	3.0-6.0				

* Sample reanalyzed for organophosphorus pesticides because laboratory QA/QC criteria out of limits.

FD - Field duplicate.
FS - Field split.
ft bgs - feet below ground surface.
MS/MSD - Matrix spike/matrix spike duplicate.
PCB - Polychlorinated biphenyl.
QA/QC - Quality assurance/quality control.
REG - Field sample.
SVOC - Semivolatile organic compound.
TAL - Target analyte list.
TCL - Target compound list.
VOC - Volatile organic compound.

3.1.2 Subsurface Soil Sampling

Seventy-three subsurface soil samples were collected from seventy-two soil borings at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7). An additional subsurface soil sample was collected from soil boring PPMP-75-GP25 at 15 to 17 feet bgs because of elevated PID readings. Subsurface soil sampling locations and rationale are presented in Table 3-1. Subsurface soil sample designations, depths, and QA/QC samples are listed in Table 3-2. Soil boring sampling locations were determined in the field by the on-site geologist based on the sampling rationale, presence of surface structures, site topography, and buried and overhead utilities. IT contracted TEG, Inc., a DPT subcontractor, to assist in subsurface soil sample collection.

Sample Collection. Subsurface soil samples were collected from soil borings at depths greater than 1 foot bgs in the unsaturated zone. The soil borings were advanced and soil samples collected using the DPT sampling procedures specified in Section 4.9.1.1 of the SAP (IT, 2000a). Sample collection logs are included in Appendix A. The samples were analyzed for the parameters listed in Table 3-2 using methods outlined in Section 3.3.

Subsurface soil samples were collected continuously to 12 feet bgs or until DPT sampler refusal was encountered. Samples were field screened using a PID in accordance with Section 4.7.1.1 of the SAP (IT, 2000a) to measure for volatile organic vapors. The sample displaying the highest reading was selected and sent to the laboratory for analysis; however, at those locations where PID readings were not greater than background, the deepest sample interval above the saturated zone was submitted for analyses. Samples to be analyzed for VOCs were collected directly from the sampler using three EnCore® samplers. The remaining portion of the sample was transferred to a clean stainless-steel bowl, homogenized, and placed in the appropriate sample containers. Samples submitted for laboratory analyses are summarized in Table 3-2. The on-site geologist constructed a detailed boring log for each soil boring. The lithological log for each borehole is included in Appendix B.

At the completion of soil sampling, boreholes were abandoned with hydrated bentonite chips following borehole abandonment procedures summarized in Appendix B of the SAP (IT, 2000a).

3.1.3 Well Installation

Twenty-three temporary monitoring wells were installed in the residuum groundwater zone at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7) to collect groundwater samples for laboratory analysis. The well/groundwater sample locations are shown on Figure 3-1. Table 3-3

Table 3-3

Temporary Well Construction Summary
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Temporary Well	Northing	Easting	Ground Elevation (ft amsl)	TOC Elevation (ft amsl)	Well Depth (ft bgs)	Screen Length (ft)	Screen Interval (ft bgs)
PPMP-75-GP04	1171792.64	671711.05	782.71	782.25	15.5	10	5.25 - 15.25
PPMP-75-GP05	1171761.73	671610.87	781.92	782.36	24.0	15	8.25 - 23.25
PPMP-75-GP07	1171852.44	671795.35	782.62	782.87	15.5	10	5.25 - 15.25
PPMP-75-GP08	1171532.27	671930.07	788.75	791.15	16.0	10	4.25 - 14.25
PPMP-75-GP09	1171553.69	671948.55	788.38	790.61	20.0	15	4.25 - 19.25
PPMP-75-GP10	1171510.54	671968.25	787.29	787.24	23.0	15	7.75 - 22.75
PPMP-75-GP12	1171667.43	672152.02	788.47	788.12	24.5	15	9.25 - 24.25
PPMP-75-GP13	1171705.98	672090.50	786.49	785.70	19.0	10	7.75 - 17.75
PPMP-75-GP21	1171995.49	671904.03	782.60	782.20	25.0	15	9 - 24
PPMP-75-GP23	1171903.05	672037.20	783.53	784.51	20.0	15	4 - 19
PPMP-75-GP24	1171903.18	672099.40	784.13	783.96	21.0	15	5.5 - 20.5
PPMP-75-GP25	1171859.11	672152.14	785.41	784.91	19.5	10	7.25 - 17.25
PPMP-75-GP27	1172078.23	672021.50	784.61	784.45	21.0	15	5.5 - 20.5
PPMP-75-GP28	1171786.86	672166.45	785.61	785.30	20.0	15	4 - 19
PPMP-75-GP30	1171702.83	672269.60	789.16	789.59	31.0	20	10.25 - 30.25
PPMP-75-GP50	1171806.54	672717.79	793.73	795.33	19.3	15	4 - 19
PPMP-75-GP55	1171631.65	672919.18	801.65	803.49	18.5	15	3 - 18
PPMP-75-GP68	1170840.39	672013.77	779.61	779.50	12.5	5	7 - 12
PPMP-75-GP69	1170593.58	671958.74	788.77	791.32	15.5	10	5 - 15
PPMP-75-GP71	1170762.50	671552.82	769.79	772.09	16.5	10	6.25 - 16.25
PPMP-75-GP73	1171213.43	671456.08	777.74	779.42	18.5	15	3.25 - 18.25
PPMP-75-GP74	1171339.43	671665.03	781.94	782.84	18.5	15	3.25 - 18.25
PPMP-75-GP75	1170911.12	672187.80	784.75	784.86	20.0	15	4.75 - 19.75

Temporary wells installed with an auger drill rig using a 4.25-inch inside diameter hollow-stem auger.
Horizontal coordinates were referenced to the U.S. State Plane Coordinate System, Alabama East Zone, North American Datum (NAD83), 1983.
Elevations were referenced to the North American Vertical Datum of 1988 (NAVD88).
All wells constructed of 2-inch inside diameter, Schedule 40 polyvinyl chloride.
bgs - Below ground surface.
ft - Feet.
amsl - Above mean sea level.
TOC - Top of casing.

summarizes construction details of the temporary wells installed at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7). The well construction logs are included in Appendix B.

IT contracted Miller Drilling, Inc., to install the temporary wells with a hollow-stem auger rig at the locations shown on Figure 3-1. IT attempted to install the temporary wells at the DPT soil boring locations. However, at one location (PPMP-75-GP69) this was not possible because of overhead and underground utilities. Therefore, the temporary well was offset approximately 10 feet south of the soil boring location. The soil sampling location was identified with "(SS)" and the associated temporary well location was identified with "(W)". The wells were installed following procedures outlined in Section 4.7 and Appendix C of the SAP (IT, 2000a). The borehole at each location was advanced with a 4.25-inch inside diameter (ID) hollow-stem auger from ground surface to the first water-bearing zone in residuum at the well location. The borehole was augered to the completion depth of the DPT soil boring and samples were collected at that depth to the bottom of the borehole. A 2-foot-long, 2-inch ID carbon steel split spoon-sampler was driven at 5-foot intervals to collect residuum for observing and describing lithology. Where split-spoon refusal was encountered, the auger was advanced until the first water-bearing zone was encountered. The on-site geologist logging the auger boreholes continued the lithological log for each borehole from the depth of split-spoon sampler refusal to the bottom of the auger borehole by logging the auger drill cuttings. The lithological log for each borehole is included in Appendix B.

Upon reaching the target depth in each borehole, a 5- to 20-foot length of 2-inch ID, 0.010-inch factory-slotted, Schedule 40 polyvinyl chloride (PVC) screen with a 3-inch PVC end cap was placed through the auger to the bottom of the borehole. The screen and end cap were attached to 2-inch ID, flush-threaded Schedule 40 PVC riser. A sand pack consisting of number 1 or number 2 filter sand (environmentally safe, clean fine sand, sieve size 20 to 40) was tremied around the well screen to approximately 2 feet above the top of the well screen as the augers were removed. The wells were surged using a solid PVC surge block for approximately 10 minutes, or until no more settling of the sand pack occurred inside the borehole. A bentonite seal, consisting of approximately 2 feet of bentonite pellets, was placed immediately on top of the sand pack and hydrated with potable water. If the bentonite seal was installed below the water table surface, the bentonite pellets were allowed to hydrate in the groundwater. Bentonite seal placement and hydration followed procedures in Appendix C of the SAP (IT, 2000a). The temporary well surface completion included attaching plastic sheeting around the PVC riser using duct tape. Additionally, sand bags were used to secure the sheeting to the ground surface around the temporary well. A locking well cap was placed on the PVC well casing.

The temporary wells were developed by surging and pumping with a submersible pump in accordance with methodology outlined in Section 4.8 and Appendix C of the SAP (IT, 2000a). The submersible pump used for well development was moved in an up-and-down fashion to encourage any residual well installation materials to enter the well. The materials were then pumped out of the well to re-establish the natural hydraulic flow conditions. Development continued until the water turbidity was equal to or less than 20 nephelometric turbidity units or for a maximum of 4 hours. The well development logs are included in Appendix C.

3.1.4 Water Level Measurements

The depth to groundwater was measured in temporary wells at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), on March 13 and 14, 2000, following procedures outlined in Section 4.18 of the SAP (IT, 2000a). Depth to groundwater was measured with an electronic water level meter. The meter probe and cable were cleaned between uses at each well following decontamination methodology presented in Section 4.10 of the SAP (IT, 2000a). Measurements were referenced to the top of the PVC well casing. A summary of groundwater level measurements is presented in Table 3-4.

3.1.5 Groundwater Sampling

Groundwater samples were collected from the 23 temporary wells installed at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7). The well/groundwater sampling locations are shown on Figure 3-1. The groundwater sampling locations and rationale are listed in Table 3-1. The groundwater sample designations and QA/QC samples are listed in Table 3-5.

Sample Collection. Groundwater sampling was performed following procedures outlined in Section 4.9.1.4 of the SAP (IT, 2000a). Groundwater was sampled after purging a minimum of 3 well volumes and after field parameters (i.e., temperature, pH, specific conductivity, dissolved oxygen, oxidation-reduction potential, and turbidity) stabilized. Purging and sampling were performed with either a submersible or peristaltic pump equipped with Teflon™ tubing. Field parameters were measured using a calibrated water-quality meter. Field parameter readings are summarized in Table 3-6. Sample collection logs are included in Appendix A. The samples were analyzed for the parameters listed in Table 3-5 using methods outlined in Section 3.3.

Table 3-4

Groundwater Elevations
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Well Location	Date	Depth to Water (ft BTOC)	Ground Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Groundwater Elevation (ft amsl)
PPMP-75-GP04	13-Mar-00	3.31	782.71	782.25	778.94
PPMP-75-GP05	13-Mar-00	3.35	781.92	782.36	779.01
PPMP-75-GP07	14-Mar-00	3.95	782.62	782.87	778.92
PPMP-75-GP08	14-Mar-00	7.19	788.75	791.15	783.96
PPMP-75-GP09	14-Mar-00	8.44	788.38	790.61	782.17
PPMP-75-GP10	14-Mar-00	4.50	787.29	787.24	782.74
PPMP-75-GP12	14-Mar-00	3.15	788.47	788.12	784.97
PPMP-75-GP13	14-Mar-00	2.51	786.49	785.70	783.19
PPMP-75-GP21	14-Mar-00	2.80	782.60	782.20	779.40
PPMP-75-GP23	14-Mar-00	3.37	783.53	784.51	781.14
PPMP-75-GP24	14-Mar-00	2.52	784.13	783.96	781.44
PPMP-75-GP25	14-Mar-00	3.54	785.41	784.91	781.37
PPMP-75-GP27	14-Mar-00	4.28	784.61	784.45	780.17
PPMP-75-GP28	14-Mar-00	2.97	785.61	785.30	782.33
PPMP-75-GP30	14-Mar-00	2.86	789.16	789.59	786.73
PPMP-75-GP50	14-Mar-00	3.77	793.73	795.33	791.56
PPMP-75-GP55	14-Mar-00	11.85	801.65	803.49	791.64
PPMP-75-GP68	14-Mar-00	0.41	779.61	779.50	779.09
PPMP-75-GP69	14-Mar-00	4.27	788.77	791.32	787.05
PPMP-75-GP73	14-Mar-00	4.51	777.74	779.42	774.91
PPMP-75-GP75	14-Mar-00	2.43	784.75	784.86	782.43

Elevations were referenced to the North American Vertical Datum of 1988 (NAVD88).
Groundwater elevations were not recorded for PPMP-75-GP71 and PPMP-75-GP74.

BTOC - Below top of casing.
ft - Feet.
amsl - above mean sea level.

Table 3-5

Groundwater Sample Designations and QA/QC Samples
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	QA/QC Samples			Analytical Suite
		Field Duplicates	Field Splits	MS/MSD	
PPMP-75-GP04	PPMP-75-GP04-GW-KJ3004-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP05	PPMP-75-GP05-GW-KJ3005-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP07	PPMP-75-GP07-GW-KJ3006-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP08	PPMP-75-GP08-GW-KJ3007-REG	PPMP-75-GP08-GW-KJ3008-FD	PPMP-75-GP08-GW-KJ3009-FS		TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP09	PPMP-75-GP09-GW-KJ3010-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP10	PPMP-75-GP10-GW-KJ3011-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP12	PPMP-75-GP12-GW-KJ3012-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP13	PPMP-75-GP13-GW-KJ3013-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP21	PPMP-75-GP21-GW-KJ3014-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP23	PPMP-75-GP23-GW-KJ3015-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP24	PPMP-75-GP24-GW-KJ3016-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP25	PPMP-75-GP25-GW-KJ3017-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP27	PPMP-75-GP27-GW-KJ3018-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides

Table 3-5

Groundwater Sample Designations and QA/QC Samples
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	QA/QC Samples			Analytical Suite
		Field Duplicates	Field Splits	MS/MSD	
PPMP-75-GP28	PPMP-75-GP28-GW-KJ3021-REG	PPMP-75-GP28-GW-KJ3019-FD	PPMP-75-GP28-GW-KJ3020-FS		TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP30	PPMP-75-GP30-GW-KJ3022-REG			PPMP-75-GP30-GW-KJ3022-MS PPMP-75-GP30-GW-KJ3022-MSD	TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP50	PPMP-75-GP50-GW-KJ3024-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP55	PPMP-75-GP55-GW-KJ3025-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP68	PPMP-75-GP68-GW-KJ3026-REG	PPMP-75-GP68-GW-KJ3027-FD			TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP69(W)	PPMP-75-GP69-GW-KJ3032-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP71	PPMP-75-GP71-GW-KJ3028-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP73	PPMP-75-GP73-GW-KJ3029-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP74	PPMP-75-GP74-GW-KJ3030-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides
PPMP-75-GP75	PPMP-75-GP75-GW-KJ3031-REG				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides, Chlorinated Herbicides Organophosphorus Pesticides

Groundwater samples collected from the approximate midpoint of the saturated screened interval of the well.

FD - Field duplicate.
FS - Field split.
MS/MSD - Matrix spike/matrix spike duplicate.
PCB- Polychlorinated biphenyl.
QA/QC - Quality assurance/quality control.
REG - Field sample.
SVOC - Semivolatile organic compound.
TAL - Target analyte list.
TCL - Target compound list.
VOC - Volatile organic compound.

Table 3-6

Groundwater and Surface Water Field Parameters
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Date	Media	Specific Conductivity (mS/cm)[a]	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Turbidity (NTU)	pH (SU)
PPMP-75-GP04	25-Feb-99	GW	3.045	3.01	210.6	18.34	19.0	6.85
PPMP-75-GP05	25-Feb-99	GW	1.049	1.27	1.6	20.92	647.7	7.17
PPMP-75-GP07	25-Feb-99	GW	3.310	2.86	146.0	19.14	14.6	6.76
PPMP-75-GP08	1-Mar-99	GW	0.305	1.38	200.5	16.73	12.8	6.51
PPMP-75-GP09	25-Feb-99	GW	5.414	3.93	-39.7	19.51	212.4	7.15
PPMP-75-GP10	26-Feb-99	GW	1.716	4.71	189.0	19.70	2.0	7.11
PPMP-75-GP12	26-Feb-99	GW	2.674	1.96	52.1	21.06	16.5	6.50
PPMP-75-GP13	1-Mar-99	GW	2.517	13.06	206.8	21.73	33.7	6.90
PPMP-75-GP21	1-Mar-99	GW	3.271	3.85	74.0	20.83	120.3	6.65
PPMP-75-GP23	1-Mar-99	GW	1.605	7.21	209.8	17.40	9.9	6.60
PPMP-75-GP24	2-Mar-99	GW	2.484	1.66	102.3	20.55	7.2	6.54
PPMP-75-GP25	2-Mar-99	GW	1.417	0.78	87.3	21.35	14.3	6.67
PPMP-75-GP27	2-Mar-99	GW	3.470	2.71	138.2	19.81	13.7	6.38
PPMP-75-GP28	2-Mar-99	GW	1.984	1.04	7.8	20.89	15.5	6.67
PPMP-75-GP30	3-Mar-99	GW	2.279	3.00	-19.8	18.10	14.4	7.00
PPMP-75-GP50	3-Mar-99	GW	0.983	3.05	82.1	15.27	7.4	7.22
PPMP-75-GP55	3-Mar-99	GW	0.979	2.90	119.6	16.61	5.0	7.14
PPMP-75-GP68	4-Mar-99	GW	0.829	0.69	-38.1	16.73	6.6	6.69
PPMP-75-GP69	31-Mar-99	GW	0.399	4.21	265.0	15.98	823.8	6.81
PPMP-75-GP71	4-Mar-99	GW	1.074	0.56	-19.3	18.53	5.6	6.76
PPMP-75-GP73	5-Mar-99	GW	2.608	0.80	-27.0	16.85	5.0	6.80
PPMP-75-GP74	8-Mar-99	GW	3.303	3.12	179.2	16.01	13.2	6.90
PPMP-75-GP75	8-Mar-99	GW	0.788	0.66	122.0	17.32	11.4	6.94
PPMP-75-SW/SD03	25-Jan-99	SW	0.408	13.13	NR	11.97	4.1	7.71
PPMP-75-SW/SD04	25-Jan-99	SW	0.159	14.63	NR	10.67	9.9	7.69
PPMP-75-SW/SD06	25-Jan-99	SW	0.268	15.14	NR	9.16	7.8	7.00
PPMP-75-SW/SD07	25-Jan-99	SW	0.331	1.61	NR	12.58	5.6	6.76
PPMP-75-SW/SD08	25-Jan-99	SW	0.306	2.11	NR	11.53	0.0	7.09
PPMP-75-SW/SD09	25-Jan-99	SW	0.226	4.19	NR	10.42	71.1	7.16
FTP-77-SW/SD02	26-Jan-99	SW	0.529	9.94	NR	12.45	47.0	6.95

Field parameters were not measured for PPMP-75-SW/SD01, PPMP-75-SW/SD02, PPMP-75-SW/SD05, and PPMP-75-SW/SD10.

[a] Specific conductivity values standardized to millisiemens per centimeter.

°C - Degrees Celsius.
GW - Groundwater.
mg/L - Milligrams per liter.
mS/cm - Millisiemens per centimeter.
mV - Millivolts.
NR - Reading not recorded.
NTU - Nephelometric turbidity unit.
ORP - Oxidation-reduction potential.
SU - Standard units.
SW - Surface water.

3.1.6 Surface Water Sampling

Eleven surface water samples were collected from drainage ditches located throughout the site. The surface water sample locations are shown on Figure 3-1. Surface water and sediment sampling was conducted in the following sequence: downstream surface water, downstream sediment, upstream surface water, and upstream sediment. This sampling sequence minimized the potential for cross contamination caused by disturbing the sediment during the sampling. The surface water sampling locations and rationale are listed in Table 3-1. The surface water sample designations and QA/QC samples are listed in Table 3-7. The sampling locations were determined in the field, based on drainage pathways and actual field observations.

Sample Collection. Surface water samples were collected in accordance with the procedures specified in Section 4.9.1.3 of the SAP (IT, 2000a). Prior to sampling, surface water field parameters were measured using a calibrated water quality unit. The field parameter readings are presented in Table 3-6. The samples were collected by dipping a stainless-steel pitcher in the water and pouring the water into the appropriate sample containers. Sample collection logs are included in Appendix A. The samples were analyzed for the parameters listed in Table 3-7 using methods outlined in Section 3.3.

3.1.7 Sediment Sampling

Eleven sediment samples were collected at the same locations as the surface water samples presented in Section 3.1.6 (Figure 3-1). The sediment sampling locations and rationale are listed in Table 3-1. The sediment sample designations and QA/QC samples are listed in Table 3-7. The sampling locations were determined in the field based on drainage pathways and actual field observations.

Sample Collection. Sediment samples were collected in accordance with the procedures outlined in Section 4.9.1.2 of the SAP (IT, 2000a). Sediments were collected with a stainless-steel spoon and placed in a stainless-steel bowl. Samples for VOC analysis were then immediately collected from the stainless-steel bowl using three Encore® samplers. The remaining portion of the sample was homogenized and placed in the appropriate sample containers. Sample collection logs are included in Appendix A. The samples were analyzed for the parameters listed in Table 3-7 using methods outlined in Section 3.3.

3.2 Surveying of Sample Locations

Sample locations were surveyed using global positioning system survey techniques described in Section 4.3 of the SAP and conventional civil survey techniques described in Section 4.19 of the

Table 3-7

Surface Water and Sediment Sample Designations and QA/QC Samples
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	Sample Depth (ft bgs)	QA/QC Samples: Field Duplicates	QA/QC Samples: Field Splits	QA/QC Samples: MS/MSD	Analytical Suite
PPMP-75-SW/SD01	PPMP-75-SW/SD01-SW-KJ2001-REG	NA				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides/Herbicides, Organophosphorus Pesticides TOC, Grain size (sediment only)
	PPMP-75-SW/SD01-SD-KJ1001-REG	0-0.5				
PPMP-75-SW/SD02	PPMP-75-SW/SD02-SW-KJ2002-REG	NA				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides/Herbicides, Organophosphorus Pesticides TOC, Grain size (sediment only)
	PPMP-75-SW/SD02-SD-KJ1002-REG	0-0.5				
PPMP-75-SW/SD03	PPMP-75-SW/SD03-SW-KJ2003-REG	NA			PPMP-75-SW/SD03-SW-KJ2003-MS PPMP-75-SW/SD03-SW-KJ2003-MSD	TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides/Herbicides, Organophosphorus Pesticides TOC, Grain size (sediment only)
	PPMP-75-SW/SD03-SD-KJ1003-REG	0-0.5			PPMP-75-SW/SD03-SD-KJ1003-MS PPMP-75-SW/SD03-SD-KJ1003-MSD	
PPMP-75-SW/SD04	PPMP-75-SW/SD04-SW-KJ2004-REG	NA				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides/Herbicides, Organophosphorus Pesticides TOC, Grain size (sediment only)
	PPMP-75-SW/SD04-SD-KJ1004-REG	0-0.5				
PPMP-75-SW/SD05	PPMP-75-SW/SD05-SW-KJ2005-REG	NA				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides/Herbicides, Organophosphorus Pesticides TOC, Grain size (sediment only)
	PPMP-75-SW/SD05-SD-KJ1005-REG	0-0.5	PPMP-75-SW/SD05-SD-KJ1006-FD	PPMP-75-SW/SD05-SD-KJ1007-FS		
PPMP-75-SW/SD06	PPMP-75-SW/SD06-SW-KJ2006-REG	NA	PPMP-75-SW/SD06-SW-KJ2007-FD			TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides/Herbicides, Organophosphorus Pesticides TOC, Grain size (sediment only)
	PPMP-75-SW/SD06-SD-KJ1008-REG	0-0.5				
PPMP-75-SW/SD07	PPMP-75-SW/SD07-SW-KJ2008-REG	NA				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides/Herbicides, Organophosphorus Pesticides TOC, Grain size (sediment only)
	PPMP-75-SW/SD07-SD-KJ1009-REG	0-1.0				
PPMP-75-SW/SD08	PPMP-75-SW/SD08-SW-KJ2009-REG	NA				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides/Herbicides, Organophosphorus Pesticides TOC, Grain size (sediment only)
	PPMP-75-SW/SD08-SD-KJ1010-REG	0-0.5				
PPMP-75-SW/SD09	PPMP-75-SW/SD09-SW-KJ2010-REG	NA				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides/Herbicides, Organophosphorus Pesticides TOC, Grain size (sediment only)
	PPMP-75-SW/SD09-SD-KJ1011-REG	0-0.5				
PPMP-75-SW/SD10	PPMP-75-SW/SD10-SW-KJ2011-REG	NA				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides/Herbicides, Organophosphorus Pesticides TOC, Grain size (sediment only)
	PPMP-75-SW/SD10-SD-KJ1012-REG	0-0.5				
FTP-77-SW/SD02	FTP-77-SW/SD02-SW-HK2002-REG	NA				TCL VOCs, TCL SVOCs, TAL Metals, PCBs Chlorinated Pesticides/Herbicides, Organophosphorus Pesticides TOC, Grain size (sediment only)
	FTP-77-SW/WD02-SD-HK1002-REG	0-0.5				

FD - Field duplicate.
FS - Field split.
ft bgs - Feet below ground surface.
MS/MSD - Matrix spike/matrix spike duplicate.
NA - Not applicable.
PCB - Polychlorinated biphenyl.
QA/QC - Quality assurance/quality control.
REG - Field sample.
SVOC - Semivolatile organic compound.
TAL - Target analyte list.
TCL - Target compound list.
TOC - Total organic carbon.
VOC - Volatile organic compound.

SAP (IT, 2000a). Horizontal coordinates were referenced to the U.S. State Plane Coordinate System, Alabama East Zone, North American Datum of 1983. Elevations were referenced to the North American Vertical Datum of 1988. Horizontal coordinates and elevations are included in Appendix D.

3.3 Analytical Program

Samples collected during the SI were analyzed for various chemical and physical parameters based on potential site-specific chemicals and on EPA, ADEM, FTMC, and USACE requirements. Target analyses for samples collected at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), included the following parameters:

- Target compound list VOCs - EPA Method 8260B
- Target compound list semivolatile organic compounds (SVOC) - EPA Method 8270C
- Target analyte list metals - EPA Method 6010B/7000
- Polychlorinated biphenyls (PCB) – EPA Method 8082
- Chlorinated pesticides – EPA Method 8081A
- Organophosphorus pesticides – EPA Method 8141A
- Chlorinated herbicides – EPA Method 8151A
- Total organic carbon – EPA Method 9060 (sediment only)
- Grain size – American Society for Testing and Materials D421/D422 (sediment only).

The samples were analyzed using EPA SW-846 methods, including Update III Methods where applicable, as presented in Table 6-1 in Appendix B of the SAP (IT, 2000a). Data were reported and evaluated in accordance with Corps of Engineers South Atlantic Savannah Level B criteria (USACE, 1994) and the stipulated requirements for the generation of definitive data (Section 3.1.2 of Appendix B of the SAP [IT, 2000a]). Chemical data were reported via hard-copy data packages by the laboratory using Contract Laboratory Program-like forms. These packages were validated in accordance with EPA National Functional Guidelines by Level III criteria. A summary of validated data is included in Appendix E. The Data Validation Summary Report is included as Appendix F.

3.4 Sample Preservation, Packaging, and Shipping

Sample preservation, packaging, and shipping followed requirements specified in Section 4.13.2 of the SAP (IT, 2000a). Sample containers, sample volumes, preservatives, and holding times for the analyses required in this SI are listed in Section 5.0, Table 5-1, of Appendix B of the SAP (IT, 2000a). Sample documentation and chains-of-custody records were completed as specified in Section 4.13 of the SAP (IT, 2000a).

Completed analysis request and chain-of-custody records (Appendix A) were secured and included with each shipment of sample coolers to Quanterra Environmental Services in Knoxville, Tennessee. Split samples were shipped to USACE South Atlantic Division Laboratory in Marietta, Georgia.

3.5 Investigation-Derived Waste Management and Disposal

Investigation-derived waste (IDW) was managed and disposed as outlined in Appendix D of the SAP (IT, 2000a). The IDW generated during the SI at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), was segregated as follows:

- Drill cuttings
- Purge water from well development, sampling activities, and decontamination fluids
- Spent well materials, and personal protective equipment.

Solid IDW was stored inside the fenced area surrounding Buildings 335 and 336 in lined roll-off bins prior to characterization and final disposal. Solid IDW was characterized using toxicity characteristic leaching procedure analyses. Based on the results, drill cuttings, spent well materials, and personal protective equipment generated during the SI at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), were disposed as nonregulated waste at the Industrial Waste Landfill on the Main Post of FTMC.

Liquid IDW was contained in the existing 20,000-gallon sump associated with the Building T-338 vehicle washrack. Liquid IDW was characterized by VOC, SVOC, and metals analyses. Based on the analyses, liquid IDW was discharged as nonregulated waste to the FTMC wastewater treatment plant on the Main Post of FTMC.

3.6 Variances/Nonconformances

Four variances to the SFSP were recorded during completion of the SI at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7). The variances did not alter the intent of the investigation or the sampling rationale presented in the SFSP (IT, 1998a). The variances to the SFSP are summarized in Table 3-8 and included in Appendix G.

No nonconformances to the SFSP were recorded during completion of the SI at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7).

Table 3-8

Variances to the Site-Specific Field Sampling Plan
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Variance to the SFSP	Justification for Variance	Impact to Site Investigation
Temporary well FTA-75-GP39 was not installed.	Competent bedrock was encountered prior to reaching groundwater during direct-push drilling. The location was offset three times and all three attempts to install a well were unsuccessful.	None. Groundwater data was provided by other wells in the area to adequately characterize the site.
One additional subsurface soil sample was collected at sample location PPMP-75-GP25.	One additional subsurface soil sample was collected at PPMP-75-GP25 because photoionization (PID) screening results indicated a reading of 9.1 parts per million.	The additional subsurface soil sample ensured more adequate coverage at the site.
Surface water and sediment sample location PPMP-75-SW/SD10 was moved upstream approximately 150 feet northeast of its proposed location.	The sample location was moved because surface water and sediment were not present in the creek at the time of sample collection.	Relocation of PPMP-75-SW/SD10 allowed for successful collection of surface water and sediment for chemical analysis.
A temporary well not proposed in the site-specific field sampling plan (SFSP) was installed at sample location PPMP-75-GP69.	A temporary well was installed at PPMP-75-GP69 due to conflicting information in the SFSP.	None. The well provided additional groundwater analytical data and water level data to characterize the site.

3.7 Data Quality

The field sample analytical data are presented in tabular form in Appendix E. The field samples were collected, documented, handled, analyzed, and reported in a manner consistent with the SI work plan; the FTMC SAP and installation-wide quality assurance plan; and standard, accepted methods and procedures. As discussed in Section 3.6, there were four variances to the SFSP. However, the variances did not impact the usability of the data.

Data Validation. A complete Level III data validation effort was performed on the reported analytical data except for the confirmation soil sample data collected at the site. Appendix F consists of a data validation summary report that discusses the results of the validation. Selected results were qualified based on the implementation of accepted data validation procedures and practices. These qualified parameters are highlighted in the report. The validation-assigned qualifiers were added to the FTMC IT Environmental Management System™ database for tracking and reporting. The qualified data were used in the comparison to the SSSLs and ESVs. Rejected data (assigned an "R" qualifier) were not used in the comparison to the SSSLs and ESVs.

The data presented in this report, except where qualified, meet the principle data quality objective for this SI.

4.0 Site Characterization

Subsurface investigations performed at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), provided soil, bedrock, and groundwater data used to characterize the geology and hydrogeology of the site.

4.1 Regional and Site Geology

4.1.1 Regional Geology

Calhoun County includes parts of two physiographic provinces, the Piedmont Upland Province and the Valley and Ridge Province. The Piedmont Upland Province occupies the extreme eastern and southeastern portions of the county and is characterized by metamorphosed sedimentary rocks. The generally accepted range in age of these metamorphics is Cambrian to Devonian.

The majority of Calhoun County, including the Main Post of FTMC, lies within the Appalachian fold and thrust structural belt (Valley and Ridge Province) where southeastward-dipping thrust faults with associated minor folding are the predominant structural features. The fold and thrust belt consists of Paleozoic sedimentary rocks that have been asymmetrically folded and thrust-faulted with major structures and faults striking in a northeast-southwest direction. Northwestward transport of the Paleozoic rock sequence along the thrust faults has resulted in the imbricate stacking of large slabs of rock referred to as thrust sheets. Within an individual thrust sheet, smaller faults may splay off the larger thrust fault, resulting in imbricate stacking of rock units within an individual thrust sheet (Osborne and Szabo, 1984). Geologic contacts in this region generally strike parallel to the faults and repetition of lithologic units is common in vertical sequences. Geologic formations within the Valley and Ridge Province portion of Calhoun County have been mapped by Warman and Causey (1962), Osborne and Szabo (1984), and Moser and DeJarnette (1992), and vary in age from Lower Cambrian to Pennsylvanian.

The basal unit of the sedimentary sequence in Calhoun County is the Cambrian Chilhowee Group. The Chilhowee Group is comprised of the Cochran, Nichols, Wilson Ridge, and Weisner Formations (Osborne and Szabo, 1984), but in Calhoun County is either undifferentiated or divided into the Cochran and Nichols Formations and an upper undifferentiated Wilson Ridge and Weisner Formation. The Cochran is composed of poorly sorted arkosic sandstone and conglomerate with interbeds of greenish-gray siltstone and mudstone. Massive to laminated, greenish-gray and black mudstone makes up the Nichols Formation with thin interbeds of

siltstone and very fine-grained sandstone (Szabo et al., 1988). These two formations are mapped only in the eastern part of the county.

The Wilson Ridge and Weisner Formations are undifferentiated in Calhoun County and consist of both coarse-grained and fine-grained clastics. The coarse-grained facies appear to dominate the unit and consists primarily of coarse-grained, vitreous quartzite, and friable, fine- to coarse-grained, orthoquartzitic sandstone, both of which locally contain conglomerate. The fine-grained facies consists of sandy and micaceous shale and silty, micaceous mudstone which are locally interbedded with the coarse clastic rocks. The abundance of orthoquartzitic sandstone and quartzite suggests that most of the Chilhowee Group bedrock in the vicinity of FTMC belongs to the Weisner Formation (Osborne and Szabo, 1984).

The Cambrian Shady Dolomite overlies the Weisner Formation northeast, east and southwest of the Main Post and consists of interlayered bluish-gray or pale yellowish-gray sandy dolomitic limestone and siliceous dolomite with coarsely crystalline porous chert (Osborne et al., 1989). A variegated shale and clayey silt have been included within the lower part of the Shady Dolomite (Cloud, 1966). Material similar to this lower shale unit was noted in core holes drilled by the Alabama Geologic Survey on FTMC (Osborne and Szabo, 1984). The character of the Shady Dolomite in the FTMC vicinity and the true assignment of the shale at this stratigraphic interval are still uncertain (Osborne, 1999).

The Rome Formation overlies the Shady Dolomite and locally occurs to the northwest and southeast of the Main Post as mapped by Warman and Causey (1962) and Osborne and Szabo (1984), and immediately to the west of Reilly Airfield (Osborne and Szabo, 1984). The Rome Formation consists of variegated thinly interbedded grayish-red-purple mudstone, shale, siltstone, and greenish-red and light gray sandstone, with locally occurring limestone and dolomite. The Conasauga Formation overlies the Rome Formation and occurs along anticlinal axes in the northeastern portion of Pelham Range (Warman and Causey, 1962), (Osborne and Szabo, 1984) and the northern portion of the Main Post (Osborne et al., 1997). The Conasauga Formation is composed of dark-gray, finely to coarsely crystalline medium- to thick-bedded dolomite with minor shale and chert (Osborne et al., 1989).

Overlying the Conasauga Formation is the Knox Group, which is composed of the Copper Ridge and Chepultepec dolomites of Cambro-Ordovician age. The Knox Group is undifferentiated in Calhoun County and consists of light medium gray, fine to medium crystalline, variably bedded

to laminated, siliceous dolomite and dolomitic limestone that weathers to a chert residuum (Osborne and Szabo, 1984). The Knox Group underlies a large portion of the Pelham Range area.

The Ordovician Newala and Little Oak Limestones overlie the Knox Group. The Newala Limestone consists of light to dark gray, micritic, thick-bedded limestone with minor dolomite. The Little Oak Limestone is comprised of dark gray, medium- to thick-bedded, fossiliferous, argillaceous to silty limestone with chert nodules. These limestone units are mapped together as undifferentiated at FTMC and other parts of Calhoun County. The Athens Shale overlies the Ordovician limestone units. The Athens Shale consists of dark-gray to black shale and graptolitic shale with localized interbedded dark gray limestone (Osborne et al., 1989). These units occur within an eroded "window" in the uppermost structural thrust sheet at FTMC and underlie much of the developed area of the Main Post.

Other Ordovician-aged bedrock units mapped in Calhoun County include the Greensport Formation, Colvin Mountain Sandstone, and Sequatchie Formation. These units consist of various siltstones, sandstones, shales, dolomites and limestones, and are mapped as one, undifferentiated unit in some areas of Calhoun County. The only Silurian-age sedimentary formation mapped in Calhoun County is the Red Mountain Formation. This unit consists of interbedded red sandstone, siltstone, and shale with greenish-gray to red silty and sandy limestone.

The Devonian Frog Mountain Sandstone consists of sandstone and quartzitic sandstone with shale interbeds, dolomudstone, and glauconitic limestone (Szabo et al., 1988). This unit locally occurs in the western portion of Pelham Range.

The Mississippian Fort Payne Chert and the Maury Formation overlie the Frog Mountain Sandstone and are composed of dark- to light-gray limestone with abundant chert nodules and greenish-gray to grayish-red phosphatic shale with increasing amounts of calcareous chert toward the upper portion of the formation (Osborne and Szabo, 1984). These units occur in the northwestern portion of Pelham Range. Overlying the Fort Payne Chert is the Floyd Shale, also of Mississippian Age, which consists of thin-bedded, fissile brown to black shale with thin intercalated limestone layers and interbedded sandstone. Osborne and Szabo (1984) reassigned the Floyd Shale, which was mapped by Warman and Causey (1962) on the Main Post of FTMC, to the Ordovician Athens Shale on the basis of fossil data.

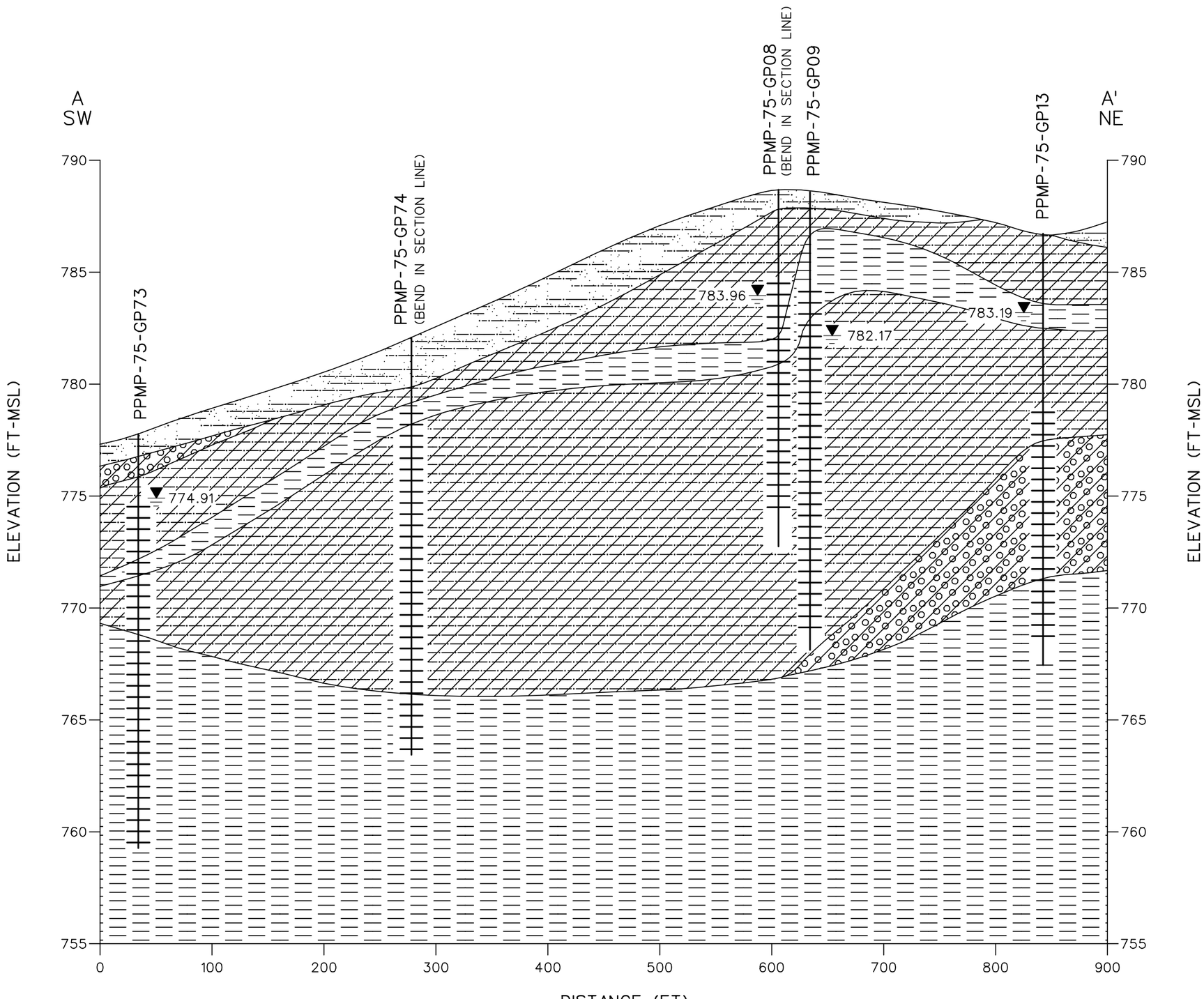
The Jacksonville Thrust Fault is the most significant structural geologic feature in the vicinity of FTMC, both for its role in determining the stratigraphic relationships in the area and for its contribution to regional water supplies. The trace of the fault extends northeastward for approximately 39 miles between Bynum, Alabama and Piedmont, Alabama. The fault is interpreted as a major splay of the Pell City fault (Osborne and Szabo, 1984). The Ordovician sequence comprising the Eden thrust sheet is exposed at FTMC through an eroded "window" or "fenster" in the overlying thrust sheet. Rocks within the window display complex folding with the folds being overturned, and tight to isoclinal. The carbonates and shales locally exhibit well-developed cleavage (Osborne and Szabo, 1984). The FTMC window is framed on the northwest by the Rome Formation, north by the Conasauga Formation, northeast, east, and southwest by the Shady Dolomite, and southeast and southwest by the Chilhowee Group (Osborne et al., 1997).

4.1.2 Site Geology

Soils at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), are classified as Rarden silty clay loams (ReB3) (U.S. Department of Agriculture, 1961). This mapping unit consists of severely eroded soils that have 2 to 6 percent slopes and a thin solum. The color of these surface (2- to 4-inch layer) soils is yellowish-red or dark-brown silty clay loam.

The FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), is situated in the center of the Ordovician window in the uppermost thrust sheet. Bedrock beneath the site is mapped as undifferentiated Ordovician Athens Shale/Mississippian Floyd Shale with the undifferentiated Little Oak and Newala limestones underlying the southeastern edge of the parcel.

A geologic cross section (A-A') was constructed with boring log data from the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), and is presented on Figure 4-1. The geologic cross section location is shown on Figure 3-1. Based on DPT and hollow-stem auger boring data collected during the SI, residuum beneath the site consists of predominantly silty to gravelly clay overlying weathered shale. DPT refusal was encountered at depths ranging from 3 to 10 feet bgs. The weathered shale was encountered at depths ranging from 5 to 16 feet bgs at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7). The contact between the residuum and the weathered shale was usually gradational. Hollow-stem auger refusal was encountered at depths ranging from 14 to 31 feet bgs.



LEGEND

SCREEN INTERVAL

WATER TABLE (MARCH 13 AND 14, 2000)

774.91 GROUNDWATER ELEVATION (FT MSL)

SILTY SANDS

SILT AND CLAY

CLAYEY GRAVELS

WEATHERED SHALE

NOTES:

1. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
2. CROSS SECTION LOCATION SHOWN ON FIGURE 3-1.
3. GROUNDWATER ELEVATION WAS NOT MEASURED IN MONITORING WELL PPMP-75-GP74 IN MARCH 2000.

HORIZONTAL

0 100 200 FEET

FIGURE 4-1
GEOLOGIC CROSS SECTION A-A'
FORMER ORDNANCE MOTOR REPAIR AREA
PARCELS 75(7), 5(7), 6(7), 41(7), AND 42(7)

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PROJ. NO.: 774645
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4.2 Site Hydrology

4.2.1 Surface Hydrology

Precipitation in the form of rainfall averages about 54 inches annually in Anniston, Alabama, with infiltration rates annually exceeding evapotranspiration rates (U.S. Department of Commerce, 1998). The major surface water features at the Main Post of FTMC include Remount Creek, Cane Creek, and Cave Creek. These waterways flow in a general northwest to westerly direction towards the Coosa River on the western boundary of Calhoun County.

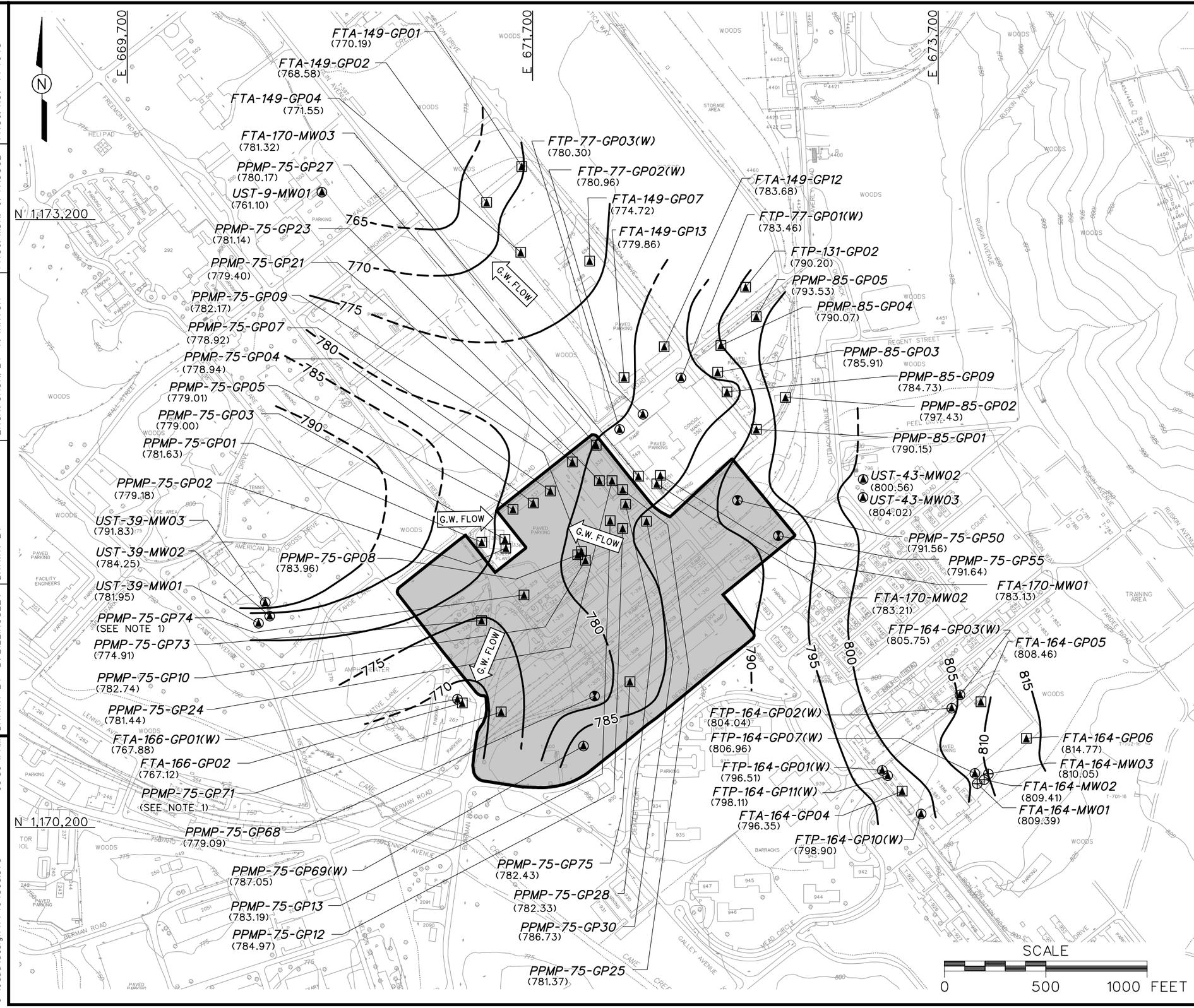
Cane Creek is located approximately 270 feet south of the southern tip of the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7). The land surface of the site slopes gently to the southwest towards Cane Creek. A series of man-made drainage ditches, extending northeast to southwest, discharge runoff from the site to Cane Creek, which flows to the northwest.

4.2.2 Hydrogeology

During boring and well installation activities, groundwater was generally encountered within the weathered shale at depths ranging from 8 to 30 feet bgs.

Static groundwater levels were measured in temporary wells at the site on March 13 and 14, 2000 (Table 3-4). A groundwater elevation map was constructed from the March 2000 data, as shown on Figure 4-2. This figure shows the potentiometric surface generally mimicking the land surface. Groundwater flow across the site is to the west towards a divide in the western portion of the parcels. The divide is in response to topography farther to the west of the site which gives rise to an opposing eastward flow. At the divide, the resulting groundwater flow directions are to the northwest and southwest. The hydraulic gradient for the FOMRA varies across the site but is approximately 0.01 feet per foot.

Static groundwater levels summarized in Table 3-4 are approximately 0 to 27 feet above the depth to groundwater encountered during drilling. This indicates that the groundwater has an upward hydraulic gradient and is under semiconfined conditions.



LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 5 FOOT)
- GROUNDWATER ELEVATION CONTOURS (DASHED WHERE INFERRED)
- (774.72) GROUNDWATER ELEVATION (FT MSL) (MARCH 13 AND 14, 2000)
- G.W. FLOW GROUNDWATER FLOW DIRECTION
- TREES / TREELINE
- PARCEL BOUNDARY
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- UTILITY POLE
- RESIDUUM MONITORING WELL LOCATION
- GROUNDWATER SAMPLE LOCATION
- GROUNDWATER, SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION
- GROUNDWATER AND SUBSURFACE SOIL SAMPLE LOCATION

NOTE:

1. GROUNDWATER ELEVATION NOT MEASURED IN MARCH 2000.

FIGURE 4-2
GROUNDWATER ELEVATION MAP FORMER ORDNANCE MOTOR REPAIR AREA PARCELS 75(7), 5(7), 6(7), 41(7), AND 42(7)

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5.0 Summary of Analytical Results

The results of the chemical analysis of samples collected at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), indicate that metals, VOCs, SVOCs, and pesticides have been detected in the various site media. In addition, one herbicide was detected in soils and groundwater, and one PCB compound was detected in one surface soil sample. To evaluate whether the detected constituents present an unacceptable risk to human health and the environment, the analytical results were compared to the human health SSSLs and ESVs for FTMC. The SSSLs and ESVs were developed by IT for human health and ecological risk evaluations as part of the ongoing SIs being performed under the BRAC Environmental Restoration Program at FTMC.

Metals concentrations exceeding the SSSLs and ESVs were subsequently compared to metals background screening values to determine if the metals concentrations are within natural background concentrations (SAIC, 1998). Summary statistics for background metals samples collected at FTMC are included in Appendix H. Additionally, PAH concentrations in surface and depositional soils that exceeded SSSLs and ESVs were compared to PAH background screening values. The PAH background screening values were derived from PAH analytical data from 18 parcels at FTMC that were determined to represent anthropogenic activity (IT, 2000b). PAH background screening values were developed for two categories of surface soils: beneath asphalt and adjacent to asphalt. The PAH background screening values for soils adjacent to asphalt are the more conservative (i.e., lower) of the PAH background values and are the values used herein for comparison.

Six compounds were quantified by both SW-846 Method 8260B (as VOC) and Method 8270C (as SVOC), including 1,2,4-trichlorobenzene, 1,4-dichlorobenzene, 1,3-dichlorobenzene, 1,2-dichlorobenzene, hexachlorobutadiene, and naphthalene. Method 8260B yields a reporting limit of 0.005 mg/kg, while Method 8270C has a reporting limit of 0.330 mg/kg, which is typical for a soil matrix sample. Due to the direct nature of the Method 8260B analysis and its resulting lower reporting limit, this method should be considered superior to Method 8270C when quantifying low levels (0.005 to 0.330 mg/kg) of these compounds. Method 8270C and its associated methylene chloride extraction step is superior, however when dealing with samples that contain higher concentrations (greater than 0.330 mg/kg) of these compounds. Therefore, all data were considered; none were categorically excluded. Data validation qualifiers were helpful in evaluating the usability of data, especially if calibration, blank contamination, precision, or accuracy indicator anomalies were encountered.

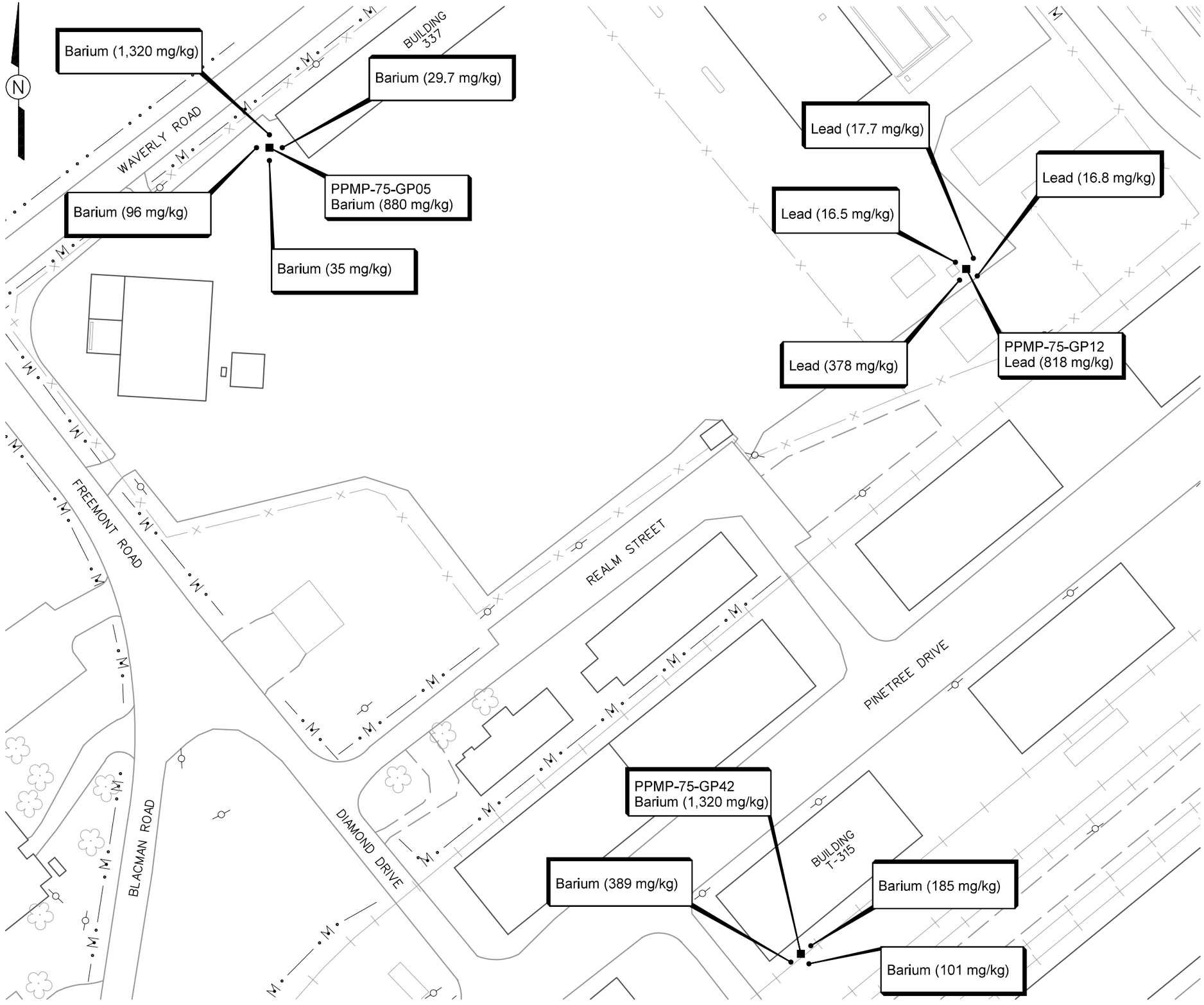
The following sections and Tables 5-1 through 5-7 summarize the results of the comparison of detected constituents to the SSSLs, ESVs, and background screening values. Complete analytical results are presented in Appendix E.

5.1 Surface and Depositional Soil Analytical Results

Sixty surface soil samples and five depositional soil samples were collected for chemical analysis at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7). Surface and depositional soil samples were collected from the upper 1-foot of soil at the locations shown on Figure 3-1. Analytical results were compared to residential human health SSSLs, ESVs, and background screening values (metals and PAHs), as presented in Table 5-1.

Metals. Twenty-three metals were detected in surface and depositional soil samples collected at the FOMRA. The concentrations of eight metals (aluminum, arsenic, barium, chromium, iron, lead, manganese, and thallium) exceeded SSSLs. Of these metals, aluminum (three locations), arsenic (thirteen locations), barium (PPMP-75-GP05 and PPMP-75-GP42), chromium (four locations), iron (four locations), lead (PPMP-75-GP12 and PPMP-75-GP31), and manganese (PPMP-75-GP08 and PPMP-75-GP57) concentrations also exceeded their respective background concentrations. Of these exceedances, the results were within the range of background values determined by SAIC (1998) (Appendix H) with the exception of barium at two locations (PPMP-75-GP05 and PPMP-75-GP42), chromium at one location (PPMP-75-GP40), iron at one location (PPMP-75-GP08), and lead at two locations (PPMP-75-GP12 and PPMP-75-GP31).

Two surface soil sample locations with elevated barium results (880 mg/kg at PPMP-75-GP05 and 1,320 mg/kg at PPMP-75-GP42) and one location with an elevated lead result (818 mg/kg at PPMP-75-GP12) were considered to be possibly anomalous results. To verify whether these results were representative of the surface soil at these locations, initial confirmation samples were collected in 10-foot intervals to the north, south, east, and west of each location, where feasible, on February 9, 2001 (Figure 5-1). At locations PPMP-75-GP12 (lead) and PPMP-75-GP42 (barium), initial confirmation sample analytical results were below SSSLs (Table 5-2). However, the barium concentration in the confirmation sample collected north of PPMP-75-GP05 was 1,320 mg/kg. Therefore, two final confirmation samples were collected at approximately 10-foot intervals from that sampling location on May 11, 2001 (Figure 5-2). Barium concentrations in the final confirmation samples were 20.7 mg/kg and 34.1 mg/kg, well below the 547 mg/kg SSSL (Table 5-3).



LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- RAILROAD
- UTILITY POLE
- ORIGINAL SURFACE SOIL SAMPLE LOCATION
- CONFIRMATION SOIL SAMPLE LOCATION

SCALE

0 80 160 FEET

FIGURE 5-1
INITIAL CONFIRMATION SAMPLE LOCATION MAP
FORMER ORDNANCE MOTOR REPAIR AREA
PARCELS 75(7), 5(7), 6(7), 41(7), AND 42(7)

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INITIATOR: B. COLLINS
PROJ. MGR.: J. YACOUB
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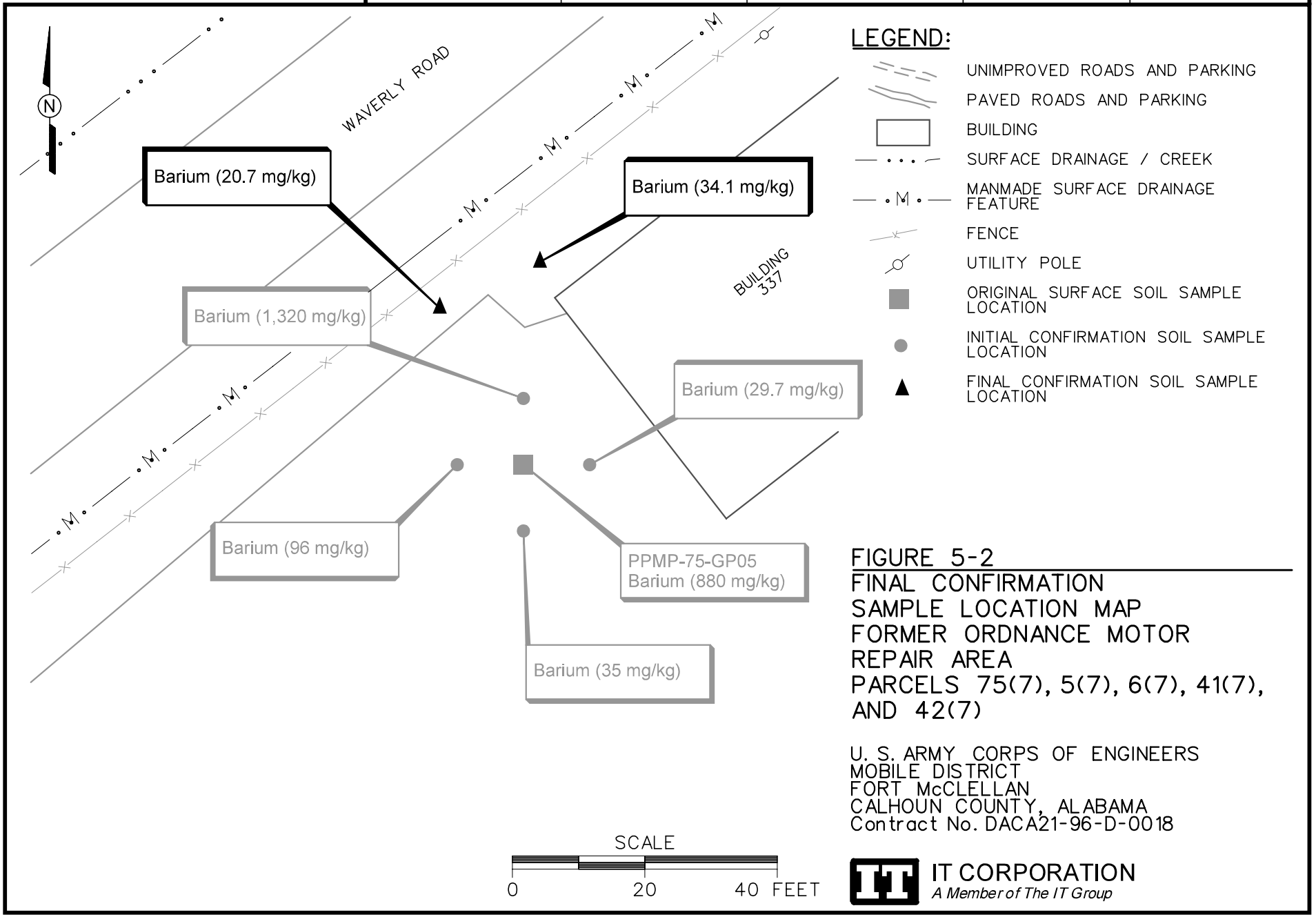

FIGURE 5-2
FINAL CONFIRMATION
SAMPLE LOCATION MAP
FORMER ORDNANCE MOTOR
REPAIR AREA
PARCELS 75(7), 5(7), 6(7), 41(7),
AND 42(7)

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Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-DEP01					PPMP-75-DEP02					PPMP-75-DEP03					PPMP-75-DEP04				
				Sample Number	KJ0165					KJ0159					KJ0160					KJ0163				
				Sample Date	12-Mar-99					12-Mar-99					17-Mar-99					12-Mar-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	1.66E+04		YES	YES	YES	3.21E+03				YES	7.42E+03				YES	8.53E+03			YES	YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					ND					ND					ND				
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	3.00E+00			YES		4.50E+00			YES		5.60E+00			YES		6.40E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	2.40E+02		YES		YES	6.18E+01					6.32E+01					1.67E+02		YES		YES
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	4.00E+00		YES		YES	4.40E-01	J				6.50E-01					1.10E+00		YES		YES
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					5.10E+00		YES		YES	ND					ND				
Calcium	mg/kg	1.72E+03	NA	NA	8.54E+04		YES			6.62E+04		YES			2.11E+03		YES			3.01E+03		YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	8.50E+00				YES	2.80E+01			YES	YES	1.52E+01				YES	1.38E+01				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	1.90E+00	J				3.80E+00	J				3.50E+00	J				7.60E+00				
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	3.30E+00	J				8.52E+01	J	YES		YES	1.45E+01	J	YES			5.40E+00	J			
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	7.33E+03			YES	YES	1.21E+04			YES	YES	2.27E+04			YES	YES	2.10E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	1.20E+01					3.51E+02		YES		YES	6.10E+01	J	YES		YES	1.93E+01				
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	8.32E+03		YES			3.61E+04		YES			1.19E+03	J	YES			5.67E+02	J			
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	7.78E+02			YES	YES	3.22E+02				YES	8.61E+01					1.04E+03			YES	YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	6.00E-02					1.00E-01		YES		YES	4.10E-02	J				3.70E-02	B			
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	2.20E+00	J				8.50E+00					1.05E+01	J	YES			7.50E+00				
Potassium	mg/kg	8.00E+02	NA	NA	3.28E+03		YES			2.93E+02	J				2.97E+02	J				2.88E+02	J			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	6.60E-01		YES			ND					1.30E+00	J	YES		YES	1.10E+00		YES		YES
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	3.43E+02	B				1.90E+02	B				1.21E+02	B				1.27E+02	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					ND					ND					ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	2.04E+01				YES	1.24E+01				YES	2.43E+01				YES	2.41E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	1.23E+01					5.18E+02		YES		YES	9.19E+01	J	YES		YES	2.11E+01				
VOLATILE ORGANIC COMPOUNDS																								
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					ND					ND					ND				
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	ND					ND					ND					ND				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	ND					ND					ND					ND				
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					ND					ND				
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND					ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	3.20E-03	B				6.60E-03	B				3.40E-03	B				3.80E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					ND					ND					ND				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	3.90E-03	J				6.30E-03	J				3.10E-03	J				6.20E-03	J			
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					ND					ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-DEP01					PPMP-75-DEP02					PPMP-75-DEP03					PPMP-75-DEP04				
				Sample Number	KJ0165					KJ0159					KJ0160					KJ0163				
				Sample Date	12-Mar-99					12-Mar-99					17-Mar-99					12-Mar-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																								
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					ND					ND					ND				
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND					ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					ND					ND					ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	ND					ND					8.90E-02	J				ND				
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	ND					ND					ND					ND				
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	ND					1.90E-01	J				4.10E-01	J				ND				
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	ND					1.70E-01	J		YES	YES	9.80E-01	J		YES	YES	ND				
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	ND					3.40E-01	J				1.80E+00	J	YES	YES		ND				
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	ND					1.30E-01	J				6.90E-01	J				ND				
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	ND					1.20E-01	J				1.00E+00	J				ND				
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	ND					ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	ND					ND					ND					ND				
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	ND					2.40E-01	J				5.60E-01					ND				
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND					ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	ND					ND					1.90E-01	J		YES		ND				
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					ND					ND					ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	ND					4.10E-01	J			YES	7.30E-01				YES	ND				
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					ND					ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	ND					1.20E-01	J				8.20E-01	J				ND				
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					ND					ND					ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	ND					1.80E-01	J			YES	1.10E-01	J			YES	ND				
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	ND					3.10E-01	J			YES	5.70E-01				YES	ND				
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	ND					ND					ND					ND				
HERBICIDES																								
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND					ND				
PESTICIDES																								
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	ND					1.50E-02	J			YES	ND					ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	3.40E-03	J			YES	1.30E-02	J			YES	ND					ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	1.10E-03	J				ND					ND					ND				
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND					ND					ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					ND					ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					ND					ND					ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					3.60E-03	J				ND				
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	ND					3.40E-02	J			YES	ND					ND				
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND					ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	ND					ND					2.30E-03	J				ND				
PCBs																								
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-DEP05					PPMP-75-GP04					PPMP-75-GP05					PPMP-75-GP06				
				Sample Number	KJ0164					KJ0009					KJ0011					KJ0013				
				Sample Date	12-Mar-99					18-Jan-99					18-Jan-99					28-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	9.75E+03			YES	YES	5.41E+03				YES	1.07E+04			YES	YES	2.02E+03				YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					ND					ND					ND				
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	9.40E+00			YES		8.60E-01	J		YES		2.90E+00			YES		1.50E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	1.09E+02					2.53E+01					8.80E+02		YES	YES	YES	1.59E+01	J			
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	1.10E+00		YES		YES	5.50E-01					2.70E+00		YES		YES	1.30E-01	J			
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					ND					8.50E-01		YES			ND				
Calcium	mg/kg	1.72E+03	NA	NA	6.24E+03		YES			1.43E+04	J	YES			3.45E+04	J	YES			4.69E+02	J			
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.84E+01				YES	4.50E+00	J			YES	8.30E+00	J			YES	4.40E+00	J			YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	9.50E+00					5.70E-01	J				2.10E+00	J				7.20E-01	J			
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	6.45E+01	J	YES		YES	1.60E+00	J				7.20E+00					1.07E+01				
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	2.21E+04			YES	YES	2.95E+03			YES	YES	1.02E+04			YES	YES	3.60E+03			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	1.44E+02		YES		YES	3.30E+00					3.65E+02		YES		YES	5.23E+01		YES		YES
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	2.18E+03		YES			3.08E+03	J	YES			8.78E+03	J	YES			2.76E+02	J			
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	5.28E+02			YES	YES	1.47E+02				YES	4.60E+02			YES	YES	1.70E+01				
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	1.70E-01		YES		YES	2.60E-02	J				1.30E-02	J				6.70E-02				
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	2.09E+01		YES			1.10E+00	J				2.90E+00	J				2.40E+00	J			
Potassium	mg/kg	8.00E+02	NA	NA	7.55E+02	J				5.14E+02	J				1.20E+03	J	YES			ND				
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	1.80E+00		YES		YES	ND					9.50E-01		YES		YES	8.40E-01		YES		YES
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	1.47E+02	B				1.05E+02	B				2.12E+02	B				8.72E+01	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					ND					ND					ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	2.45E+01				YES	1.11E+01				YES	1.22E+01				YES	5.00E+00	J			YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	2.30E+02		YES		YES	5.70E+00					2.56E+02		YES		YES	1.33E+02		YES		YES
VOLATILE ORGANIC COMPOUNDS																								
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					3.60E-02	J				ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					1.30E-02					ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					2.00E-02	J				ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					4.40E-03	J				4.50E-03	J				ND				
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	1.70E-02	B				2.50E-01	J				3.10E-01	J				ND				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	ND					2.70E-03	B				1.60E-03	B				ND				
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					4.10E-03	J				2.60E-03	J				ND				
Cumene	mg/kg	NA	7.77E+02	NA	7.10E-03	J				ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					2.70E-03	J				ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	8.30E-03	B				3.20E-03	B				2.90E-03	B				3.10E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					3.40E+00				YES	ND					ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					2.20E-03	J				4.50E-03	J				ND				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	1.60E-02	J				ND					ND					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					1.00E-02					ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					5.40E-03	J				ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					4.20E-03	J				ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					4.10E-03	J				ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					4.10E-03	J				ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-DEP05					PPMP-75-GP04					PPMP-75-GP05					PPMP-75-GP06				
				Sample Number	KJ0164					KJ0009					KJ0011					KJ0013				
				Sample Date	12-Mar-99					18-Jan-99					18-Jan-99					28-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																								
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					1.50E+00	J				ND					ND				
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND					ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					1.50E+00	J	YES			8.90E-01	J	YES			ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	ND					7.30E-01	J				5.80E-01	J				2.90E-01	J			
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	ND					5.00E+00		YES		YES	5.40E+00		YES		YES	1.50E-01	J			YES
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	1.10E-01	J				5.90E+00		YES	YES	YES	9.20E+00		YES	YES	YES	6.70E-01				
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	1.50E-01	J		YES	YES	4.40E+00		YES	YES	YES	7.80E+00		YES	YES	YES	1.00E+00			YES	YES
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	2.40E-01	J				5.70E+00		YES	YES		9.80E+00		YES	YES		1.20E+00			YES	
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	ND					2.40E+00	J	YES			4.70E+00		YES			8.30E-01				
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	ND					2.10E+00	J	YES			4.30E+00	J	YES			9.50E-01				
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	1.90E-01	J				ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	ND					3.40E+00	J				3.20E+00	J				1.10E-01	J			
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	1.50E-01	J				5.70E+00		YES		YES	9.30E+00		YES		YES	9.30E-01				
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND					ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	ND					6.80E-01	J		YES		1.20E+00	J	YES	YES		3.10E-01	J		YES	
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					3.20E+00	J				1.80E+00	J				ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	1.70E-01	J			YES	1.80E+01		YES		YES	2.60E+01		YES		YES	1.70E+00				YES
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					6.10E+00		YES			4.60E+00	J	YES			ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	ND					2.80E+00	J	YES	YES		5.20E+00		YES	YES		8.20E-01				
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					1.50E+00	J	YES		YES	ND					ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	8.00E-02	J				2.40E+01		YES		YES	3.00E+01		YES		YES	4.60E-01				YES
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	1.40E-01	J			YES	1.40E+01		YES		YES	2.40E+01		YES		YES	1.40E+00				YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	7.60E-01	J				ND					ND					ND				
HERBICIDES																								
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND					ND				
PESTICIDES																								
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	ND					ND					ND					ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	ND					ND					ND					ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	ND					ND					ND					4.70E-03	J			YES
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND					6.60E-03	J			YES	ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					ND					ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					3.60E-02	J			YES	2.20E-02	J			YES	ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					5.10E-03	J			
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	ND					3.90E-02	J			YES	2.50E-02	J			YES	3.20E-02				YES
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND					ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	ND					ND					ND					ND				
PCBs																								
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	4.50E-02	J			YES	ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP07					PPMP-75-GP08					PPMP-75-GP09					PPMP-75-GP10				
				Sample Number	KJ0015					KJ0017					KJ0019					KJ0021				
				Sample Date	19-Jan-99					19-Jan-99					19-Jan-99					18-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	4.39E+03				YES	4.79E+03				YES	7.83E+03			YES	YES	1.19E+04			YES	YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					ND					ND					ND				
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	9.90E-01	J		YES		1.15E+01			YES	YES	3.10E+00			YES		4.20E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	1.63E+01	J				1.25E+02		YES			3.32E+01					5.53E+01				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	2.10E-01	B				1.40E+00		YES		YES	7.30E-01					8.80E-01		YES		
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					ND					ND					ND				
Calcium	mg/kg	1.72E+03	NA	NA	9.29E+03	J	YES			3.18E+02	J				6.23E+04	J	YES			8.27E+03	J	YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	5.60E+00	J			YES	1.10E+01	J			YES	1.09E+01	J			YES	1.76E+01	J			YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	7.40E-01	J				1.10E+01					2.90E+00	J				5.10E+00	J			
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	2.90E+00					1.32E+01		YES			1.24E+01					2.80E+01		YES		
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	3.34E+03			YES	YES	6.05E+04		YES	YES	YES	1.70E+04			YES	YES	2.77E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	9.10E+00					6.96E+01		YES		YES	1.25E+01					1.83E+01				
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	4.60E+03	J	YES			3.60E+02	J				3.68E+04	J	YES			7.53E+03	J	YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	3.52E+01					3.11E+03		YES	YES	YES	1.16E+02				YES	5.67E+01				
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	2.50E-02	J				8.10E-02	J	YES			4.10E-02	J				3.40E-02	J			
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	1.70E+00	J				1.61E+01		YES			1.29E+01		YES			2.39E+01		YES		
Potassium	mg/kg	8.00E+02	NA	NA	2.64E+02	B				1.29E+02	B				5.14E+02	J				3.56E+02	J			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	4.20E-01	J				2.50E+00		YES		YES	7.20E-01		YES			1.40E+00		YES		YES
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	8.29E+01	B				6.61E+01	B				1.63E+02	B				2.65E+02	J			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					ND					ND					5.40E-01	J		YES	
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	7.70E+00				YES	4.36E+01				YES	1.66E+01				YES	2.12E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	8.50E+00					6.70E+01		YES		YES	3.16E+01					6.86E+01		YES		YES
VOLATILE ORGANIC COMPOUNDS																								
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	2.90E-03	J				ND					ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	3.80E-03	J				ND					6.10E-03	J				ND				
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	4.20E-02	B				2.20E-02	B				7.20E-02	B				4.60E-02	B			
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	2.00E-03	B				1.80E-03	B				1.20E-03	J				1.40E-03	B			
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					ND					ND				
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND					ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	2.50E-03	B				2.60E-03	B				2.30E-03	B				2.90E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	8.70E-02	J				ND					2.30E-03	J				ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					ND					1.10E-02					ND				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	ND					ND					ND					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					ND					ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP07					PPMP-75-GP08					PPMP-75-GP09					PPMP-75-GP10				
				Sample Number	KJ0015					KJ0017					KJ0019					KJ0021				
				Sample Date	19-Jan-99					19-Jan-99					19-Jan-99					18-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																								
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					ND					ND					ND				
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND					ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	2.90E+00	J	YES			ND					ND					ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	1.80E+00	J	YES			ND					2.70E-01	J				ND				
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	1.50E+01		YES		YES	ND					6.50E-01	J			YES	ND				
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	1.90E+01		YES	YES	YES	ND					2.80E+00		YES	YES		ND				
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	1.50E+01		YES	YES	YES	ND					2.20E+00	J	YES	YES	YES	ND				
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	1.90E+01		YES	YES		ND					3.60E+00		YES	YES		4.60E-02	J			
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	8.40E+00	J	YES			ND					1.20E+00	J	YES			ND				
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	8.10E+00	J	YES			ND					1.10E+00	J				ND				
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	ND					ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	7.30E+00	J				ND					ND					ND				
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	1.80E+01		YES		YES	ND					2.80E+00		YES			ND				
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND					ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	ND					ND					4.20E-01	J		YES		ND				
Dibenzofuran	mg/kg	NA	3.09E+01	NA	6.80E+00	J				ND					ND					ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	5.50E+01		YES		YES	ND					7.50E+00		YES		YES	5.30E-02	J			
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	1.50E+01		YES			ND					4.30E-01	J				ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	9.60E+00	J	YES	YES		ND					1.30E+00	J	YES	YES		ND				
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					ND					ND					ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	6.70E+01		YES		YES	ND					2.70E+00		YES		YES	4.20E-02	J			
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	4.50E+01		YES		YES	ND					6.30E+00		YES		YES	4.70E-02	J			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	ND					6.10E-02	J				ND					ND				
HERBICIDES																								
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					1.20E+00				YES	ND					ND				
PESTICIDES																								
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	ND					ND					ND					ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	ND					ND					ND					ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	2.00E-02	J			YES	ND					ND					ND				
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND					ND					ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					ND					ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	2.80E-02	J			YES	ND					1.30E-02	J			YES	ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					ND				
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	ND					ND					1.80E-02	J				ND				
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND					ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	ND					ND					ND					ND				
PCBs																								
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP11					PPMP-75-GP12					PPMP-75-GP13					PPMP-75-GP20				
				Sample Number	KJ0025					KJ0027					KJ0029					KJ0037				
				Sample Date	21-Jan-99					21-Jan-99					20-Jan-99					20-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	6.31E+03				YES	6.41E+03				YES	1.44E+04			YES	YES	5.77E+03				YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					ND					ND					ND				
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	5.30E+00			YES		4.90E+00			YES		6.70E+00			YES		2.90E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	1.16E+02	J				3.14E+02	J	YES		YES	2.23E+02		YES		YES	5.92E+01				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	8.30E-01		YES			8.40E-01		YES			1.40E+00	J	YES		YES	5.50E-01	J			
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					ND					ND					ND				
Calcium	mg/kg	1.72E+03	NA	NA	1.03E+04	J	YES			1.26E+04	J	YES			3.59E+03	J	YES			1.24E+04	J	YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.42E+01				YES	1.51E+01				YES	1.58E+01				YES	1.04E+01				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	3.70E+00	J				3.60E+00	J				1.48E+01					1.50E+00	J			
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	1.80E+01		YES			1.27E+01					4.20E+01		YES		YES	7.70E+00				
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	1.03E+04			YES	YES	1.29E+04			YES	YES	3.35E+04			YES	YES	9.48E+03			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	9.34E+01	J	YES		YES	8.18E+02	J	YES	YES	YES	2.13E+01					3.01E+01				
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	2.28E+03		YES			4.25E+03		YES			5.56E+03	J	YES			3.19E+03	J	YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	2.01E+02	J			YES	1.97E+02	J			YES	7.58E+01	J				1.15E+02	J			YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	6.20E-02	B				3.80E-02	B				6.70E-02					3.30E-02	J			
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	1.07E+01		YES			1.08E+01		YES			3.75E+01		YES		YES	3.60E+00	J			
Potassium	mg/kg	8.00E+02	NA	NA	6.24E+02					3.59E+02	J				3.61E+02	J				3.58E+02	J			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	8.80E-01		YES		YES	7.10E-01		YES			3.10E+00		YES		YES	6.20E-01		YES		
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	1.77E+02	B				1.73E+02	B				1.37E+02	B				9.89E+01	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					ND					5.20E-01	J		YES		ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	1.33E+01				YES	1.70E+01				YES	2.55E+01				YES	1.48E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	1.06E+02	J	YES		YES	3.42E+02	J	YES		YES	1.16E+02	J	YES		YES	3.64E+01	J			
VOLATILE ORGANIC COMPOUNDS																								
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					ND					ND					ND				
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	ND					8.80E-03	B				3.90E-02	B				ND				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	ND					2.30E-03	B				2.60E-03	B				2.60E-03	B			
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					ND					ND				
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND					ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	2.00E-03	B				2.40E-03	B				3.80E-03	B				4.50E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	5.00E-03	J				ND					8.10E-02	J				ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	2.60E-02	J				ND					ND					ND				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	ND					ND					ND					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					ND					ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP11					PPMP-75-GP12					PPMP-75-GP13					PPMP-75-GP20				
				Sample Number	KJ0025					KJ0027					KJ0029					KJ0037				
				Sample Date	21-Jan-99					21-Jan-99					20-Jan-99					20-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																								
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					ND					ND					ND				
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND					ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					ND					4.90E-02	J				ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	4.40E-02	J				8.80E-01	J				6.20E-02	J				3.40E-01	J			
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	ND					3.10E-01	J			YES	7.80E-02	J				7.30E-02	J			
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	1.60E-01	J				4.00E+00	J	YES	YES		4.40E-01					4.10E-01				
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	2.30E-01	J		YES	YES	4.90E+00		YES	YES	YES	4.80E-01			YES	YES	9.40E-01			YES	YES
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	3.30E-01	J				6.80E+00		YES	YES		5.80E-01					1.40E+00			YES	
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	3.80E-01	J				4.70E+00		YES			2.80E-01	J				1.10E+00		YES		
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	1.30E-01	J				2.40E+00		YES			2.60E-01	J				5.70E-01				
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	ND					ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	ND					1.50E-01	J				8.70E-02	J				4.40E-02	J			
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	2.20E-01	J				4.00E+00	J	YES			4.30E-01					5.40E-01				
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND					ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	7.00E-02	J				1.00E+00	J	YES	YES		7.40E-02	J				2.30E-01	J		YES	
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					ND					ND					ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	3.10E-01	J			YES	4.30E+00	J	YES		YES	1.00E+00				YES	5.70E-01				YES
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					ND					7.80E-02	J				ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	2.80E-01	J				4.20E+00	J	YES	YES		3.00E-01	J				9.70E-01		YES	YES	
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					ND					1.40E-01	J	YES		YES	ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	1.20E-01	J			YES	7.90E-01	J			YES	8.70E-02	J				1.30E-01	J			YES
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	2.50E-01	J			YES	5.70E+00		YES		YES	9.30E-01				YES	5.20E-01	J			YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	4.30E-02	J				ND					ND					ND				
HERBICIDES																								
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND					ND				
PESTICIDES																								
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	4.50E-02				YES	ND					ND					ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	2.60E-01				YES	ND					ND					ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	1.30E-01	J			YES	1.20E-02	J			YES	ND					ND				
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND					ND					ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					ND					ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					ND					1.10E-02	J			YES	ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	ND					1.30E-02				YES	ND					ND				
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	ND					3.20E-02	J			YES	ND					ND				
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND					ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	7.30E-03	J				7.90E-03	J				ND					ND				
PCBs																								
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP21					PPMP-75-GP22					PPMP-75-GP23					PPMP-75-GP24				
				Sample Number	KJ0039					KJ0041					KJ0045					KJ0047				
				Sample Date	20-Jan-99					20-Jan-99					20-Jan-99					21-Jan-99				
				Sample Depth (Feet)	.5- 2.5					1-2					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	1.03E+04			YES	YES	1.31E+04			YES	YES	1.74E+04		YES	YES	YES	7.76E+03				YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					ND					ND					ND				
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	3.30E+00			YES		2.80E+00			YES		2.30E+00			YES		4.60E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	6.95E+01					1.72E+02		YES		YES	2.55E+02		YES		YES	5.24E+01	J			
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	5.60E-01	J				2.50E+00	J	YES		YES	3.50E+00	J	YES		YES	5.00E-01	J			
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					3.60E-01	J	YES			1.10E+00		YES			ND				
Calcium	mg/kg	1.72E+03	NA	NA	1.61E+03	J				1.08E+05	J	YES			1.19E+05	J	YES			2.23E+04	J	YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.51E+01				YES	2.30E+01				YES	3.80E+01		YES	YES	YES	1.64E+01				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	2.70E+00	J				2.60E+00	J				2.60E+00	J				3.20E+00	J			
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	1.14E+01					9.00E+00					1.37E+01		YES			9.10E+00				
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	2.45E+04			YES	YES	9.29E+03			YES	YES	6.91E+03			YES	YES	1.63E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	1.38E+01					9.98E+01		YES		YES	2.02E+02		YES		YES	1.28E+01	J			
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	8.31E+02	J				3.29E+04	J	YES			1.91E+04	J	YES			1.22E+04		YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	3.09E+01	J				7.87E+02	J		YES	YES	9.87E+02	J		YES	YES	7.44E+01	J			
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	6.10E-02					1.20E-02	J				1.50E-02	J				7.90E-02	B			
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	5.70E+00					7.50E+00					6.50E+00					6.70E+00				
Potassium	mg/kg	8.00E+02	NA	NA	3.78E+02	J				2.40E+03		YES			3.78E+03		YES			4.04E+02	J			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	1.40E+00		YES		YES	ND					4.90E-01	J	YES			7.70E-01		YES		
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	1.01E+02	B				3.86E+02	J				5.82E+02					2.12E+02	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					ND					ND					ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	2.80E+01				YES	1.83E+01				YES	2.08E+01				YES	2.02E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	3.36E+01	J				1.72E+02	J	YES		YES	1.21E+02	J	YES		YES	2.03E+01	B			
VOLATILE ORGANIC COMPOUNDS																								
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					6.90E+00	D			YES	2.60E+00	J			YES	ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					2.70E+00	D			YES	2.10E-01				YES	ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					3.60E+00	D			YES	ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	4.60E-03	J				ND					8.60E-03	J				3.20E-03	J			
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	4.10E-02	B				1.80E-02	B				3.40E-02	B				3.60E-02	B			
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					2.20E-03	J				2.70E-02					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	2.10E-03	B				ND					1.30E-03	J				1.30E-03	B			
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					5.40E-03	J				3.80E-03	J				ND				
Cumene	mg/kg	NA	7.77E+02	NA	ND					2.00E-02					1.90E-02					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					3.80E-02					7.10E-02				YES	ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	4.50E-03	B				2.60E-03	B				2.40E-03	B				2.10E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					1.20E-01	J			YES	8.50E+01	D			YES	ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					1.10E-02					1.20E-01				YES	5.90E-03				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	ND					ND					ND					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					3.40E-01				YES	3.60E-01				YES	ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					5.60E-02	J				3.60E-02	J				ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					3.90E-02	J				1.10E-01	J				ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					2.30E-02	J				1.80E-02	J				ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					7.10E-03	J				ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP21					PPMP-75-GP22					PPMP-75-GP23					PPMP-75-GP24				
				Sample Number	KJ0039					KJ0041					KJ0045					KJ0047				
				Sample Date	20-Jan-99					20-Jan-99					20-Jan-99					21-Jan-99				
				Sample Depth (Feet)	.5- 2.5					1-2					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																								
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					5.90E-01	J				1.60E+01					ND				
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND					ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					1.50E+00	J	YES			1.20E+01		YES			4.40E-01	J			
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	ND					5.50E-01	J				1.60E+00	J	YES			3.80E-01	J			
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	ND					2.80E+00	J	YES		YES	1.30E+01		YES		YES	5.90E-01	J			YES
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	ND					6.00E+00		YES	YES	YES	1.50E+01		YES	YES	YES	2.40E+00	J	YES	YES	
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	ND					6.40E+00		YES	YES	YES	1.20E+01		YES	YES	YES	3.70E+00	J	YES	YES	YES
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	ND					8.90E+00		YES	YES		1.60E+01		YES	YES		5.10E+00	J	YES	YES	
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	ND					2.90E+00	J	YES			6.30E+00	J	YES			2.80E+00	J	YES		
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	ND					3.60E+00		YES			7.00E+00	J	YES			1.60E+00	J	YES		
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	ND					ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	ND					1.40E+00	J				5.90E+00	J				1.70E-01	J			
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	ND					6.00E+00		YES		YES	1.40E+01		YES		YES	2.50E+00	J	YES		
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND					ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	ND					9.20E-01	J	YES	YES		1.70E+00	J	YES	YES		7.90E-01	J	YES	YES	
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					9.10E-01	J				9.40E+00	J				1.80E-01	J			
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	ND					1.50E+01		YES		YES	4.40E+01		YES		YES	4.50E+00	J	YES		YES
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					2.30E+00	J	YES			1.60E+01		YES			4.80E-01	J			
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	ND					3.30E+00		YES	YES		6.90E+00	J	YES	YES		2.70E+00	J	YES	YES	
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					9.50E-01	J	YES		YES	6.10E+01		YES		YES	ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	ND					9.10E+00		YES		YES	4.40E+01		YES		YES	2.00E+00	J	YES		YES
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	ND					1.30E+01		YES		YES	3.00E+01		YES		YES	4.80E+00	J	YES		YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	ND					ND					ND					ND				
HERBICIDES																								
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND					ND				
PESTICIDES																								
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	ND					ND					7.10E-03	J			YES	ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	ND					ND					ND					ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	ND					ND					ND					9.00E-03	J			YES
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					9.70E-03	J			YES	7.70E-03	J			YES	ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					2.50E-02	J				ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					4.50E-02				YES	1.80E-02	J			YES	ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					2.50E-02				YES
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	7.00E-04	J				ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	ND					7.50E-02				YES	4.50E-02	J			YES	2.20E-02	J			YES
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					1.40E-02	J			YES	5.20E-03	J			YES	ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	4.40E-04	J				ND					ND					2.50E-02	J			
PCBs																								
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP25					PPMP-75-GP26					PPMP-75-GP27				
				Sample Number	KJ0049					KJ0051					KJ0053				
				Sample Date	20-Jan-99					21-Jan-99					21-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					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
METALS																			
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	6.84E+03				YES	3.46E+03				YES	4.35E+03				YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					ND					ND				
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	3.00E+00			YES		1.40E+00			YES		2.20E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	5.35E+01					1.59E+01	J				4.47E+01	J			
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	4.90E-01	J				9.60E-02	J				2.50E-01	J			
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					ND					ND				
Calcium	mg/kg	1.72E+03	NA	NA	4.23E+03	J	YES			5.43E+02	J				3.70E+04	J	YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.04E+01				YES	6.40E+00				YES	1.12E+01				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	2.10E+00	J				ND					1.30E+00	J			
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	7.00E+00					3.10E+00					5.40E+00				
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	1.84E+04			YES	YES	4.55E+03			YES	YES	7.86E+03			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	5.86E+01		YES		YES	4.04E+01	J	YES			1.17E+01	J			
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	7.17E+02	J				1.43E+02	J				2.10E+04		YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	6.70E+01	J				2.91E+01	J				4.68E+01	J			
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	7.60E-02					5.40E-02	B				3.50E-02	B			
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	4.10E+00	J				1.60E+00	J				5.30E+00				
Potassium	mg/kg	8.00E+02	NA	NA	2.84E+02	J				ND					2.17E+02	J			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	6.80E-01		YES			ND					ND				
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	1.50E+02	B				6.93E+01	B				1.20E+02	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	5.80E-01	J		YES		ND					ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	1.98E+01				YES	8.50E+00				YES	1.10E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	3.45E+01	J				8.12E+01	J	YES		YES	1.68E+01	B			
VOLATILE ORGANIC COMPOUNDS																			
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	3.30E-03	J				ND					2.80E-03	J			
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	5.60E-02	B				8.00E-03	B				2.70E-02	B			
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	ND					1.50E-03	B				1.50E-03	B			
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					3.40E-03	J			
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	2.50E-03	B				2.20E-03	B				2.30E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	4.40E-03	J				ND					ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					ND					ND				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	ND					ND					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP25					PPMP-75-GP26					PPMP-75-GP27				
				Sample Number	KJ0049					KJ0051					KJ0053				
				Sample Date	20-Jan-99					21-Jan-99					21-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					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																			
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	4.40E-02	J				ND					ND				
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	1.20E-01	J				ND					ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	ND					2.30E-01	J				5.80E-01	J			
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	1.30E-01	J			YES	4.00E-02	J				ND				
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	2.40E-01	J				5.00E-01	J				1.10E+00	J		YES	
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	1.80E-01	J		YES	YES	1.10E+00	J		YES	YES	2.20E+00	J	YES	YES	YES
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	2.40E-01	J				1.30E+00	J		YES		2.70E+00	J	YES	YES	
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	9.50E-02	J				1.10E+00	J	YES			2.10E+00	J	YES		
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	9.00E-02	J				5.20E-01	J				9.30E-01	J			
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	ND					ND					2.70E-01	J			
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	2.40E-01	J				5.70E-01	J				1.30E+00	J			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	ND					2.70E-01	J		YES		5.00E-01	J		YES	
Dibenzofuran	mg/kg	NA	3.09E+01	NA	7.90E-02	J				ND					ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	7.50E-01				YES	4.40E-01	J			YES	1.10E+00	J			YES
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	1.30E-01	J				ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	9.00E-02	J				9.40E-01	J	YES	YES		1.80E+00	J	YES	YES	
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					ND					ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	5.50E-01				YES	8.70E-02	J				2.20E-01	J			YES
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	5.00E-01				YES	6.10E-01				YES	1.00E+00	J			YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	ND					ND					ND				
HERBICIDES																			
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND				
PESTICIDES																			
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	ND					ND					ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	ND					ND					ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	ND					1.80E-02	J			YES	6.60E-03	J			YES
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND					ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					ND					ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	ND					5.10E-03	J				1.60E-02	J			YES
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	ND					1.30E-02	J				2.50E-02	J			YES
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	1.80E-03	J				ND					5.40E-03	J			
PCBs																			
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP28					PPMP-75-GP29				
				Sample Number	KJ0055					KJ0057				
				Sample Date	21-Jan-99					21-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1				
Parameter	Units	BKG[a]	SSSL[b]	ESV[b]	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
METALS														
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	9.54E+03			YES	YES	9.89E+03			YES	YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					ND				
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	2.70E+00			YES		6.20E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	8.34E+01	J				1.17E+02	J			
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	1.20E+00		YES		YES	1.20E+00		YES		YES
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					4.50E+00		YES		YES
Calcium	mg/kg	1.72E+03	NA	NA	3.01E+04	J	YES			1.61E+04	J	YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.43E+01				YES	3.25E+01			YES	YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	2.40E+00	J				6.10E+00				
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	7.30E+00					2.09E+01		YES		
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	1.37E+04			YES	YES	2.42E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	2.26E+01	J				1.91E+02	J	YES		YES
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	1.03E+04		YES			3.15E+03		YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	2.02E+02	J			YES	2.86E+02	J			YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	4.00E-02	B				4.40E-02	B			
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	5.90E+00					1.27E+01		YES		
Potassium	mg/kg	8.00E+02	NA	NA	9.44E+02		YES			5.85E+02	J			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	8.60E-01		YES		YES	1.40E+00		YES		YES
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	1.97E+02	B				1.57E+02	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	2.01E+01				YES	2.65E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	2.54E+01	J				1.19E+02	J	YES		YES
VOLATILE ORGANIC COMPOUNDS														
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	2.70E-03	J				ND				
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	2.90E-02	B				ND				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	1.40E-03	B				ND				
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND				
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	2.10E-03	B				2.30E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					ND				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	ND					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP28					PPMP-75-GP29				
				Sample Number	KJ0055					KJ0057				
				Sample Date	21-Jan-99					21-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1				
Parameter	Units	BKG[a]	SSSL[b]	ESV[b]	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS														
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					1.20E-01	J			
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					5.00E-02	J			
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	ND					7.10E-02	J			
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	ND					1.10E-01	J			YES
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	2.60E-01	J				5.30E-01	J			
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	2.20E-01	J		YES	YES	5.70E-01	J		YES	YES
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	3.70E-01	J				7.60E-01	J			
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	1.90E-01	J				5.40E-01	J			
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	ND					2.80E-01	J			
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	ND					9.60E-02	J			
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	3.20E-01	J				6.00E-01	J			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	ND					1.20E-01	J		YES	
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					6.60E-02	J			
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	6.00E-01	J			YES	1.20E+00	J			YES
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					5.50E-02	J			
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	1.50E-01	J				4.60E-01				
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					7.20E-02	J	YES		
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	2.40E-01	J			YES	7.60E-01	J			YES
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	4.30E-01	J			YES	9.00E-01	J			YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	ND					ND				
HERBICIDES														
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND				
PESTICIDES														
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	ND					ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	ND					ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	ND					2.50E-03	J			YES
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	ND					ND				
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	ND					6.70E-03	J			
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	ND					7.40E-03	J			
PCBs														
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP30					PPMP-75-GP31					PPMP-75-GP32					PPMP-75-GP33				
				Sample Number	KJ0059					KJ0061					KJ0063					KJ0065				
				Sample Date	21-Jan-99					27-Jan-99					27-Jan-99					27-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	6.29E+03				YES	9.86E+03			YES	YES	6.81E+03				YES	1.19E+04			YES	YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					ND					ND					ND				
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	4.50E+00			YES		2.68E+01	J	YES	YES	YES	1.33E+01	J		YES	YES	1.40E+01	J	YES	YES	YES
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	1.24E+02	J	YES			1.19E+02					1.08E+02					2.46E+02		YES		YES
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	1.30E+00		YES		YES	1.20E+00	J	YES		YES	7.70E-01	J				1.50E+00	J	YES		YES
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	1.70E+00		YES		YES	ND					ND					ND				
Calcium	mg/kg	1.72E+03	NA	NA	3.14E+04	J	YES			3.15E+03		YES			2.62E+03		YES			3.75E+03		YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.35E+01				YES	2.30E+01				YES	1.53E+01				YES	2.10E+01				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	2.70E+00	J				1.18E+01					1.01E+01					2.62E+01		YES		YES
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	2.40E+01		YES			3.92E+01	J	YES			2.22E+01	J	YES			4.32E+01	J	YES		YES
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	9.01E+03			YES	YES	2.83E+04			YES	YES	1.65E+04			YES	YES	2.80E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	1.17E+02	J	YES		YES	4.16E+02		YES	YES	YES	1.32E+02		YES		YES	1.89E+02		YES		YES
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	1.09E+04		YES			3.17E+03		YES			1.93E+03		YES			3.59E+03		YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	2.60E+02	J			YES	2.24E+02	J			YES	1.37E+02	J			YES	2.20E+02	J			YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	3.40E-02	B				7.10E-02					4.80E-02	J				5.90E-02				
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	7.00E+00					3.09E+01		YES		YES	1.93E+01		YES			3.54E+01		YES		YES
Potassium	mg/kg	8.00E+02	NA	NA	9.45E+02		YES			3.68E+02	J				4.39E+02	J				4.99E+02	J			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	7.10E-01		YES			2.40E+00		YES		YES	1.50E+00		YES		YES	2.10E+00		YES		YES
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	2.07E+02	B				1.30E+02	B				1.43E+02	B				1.38E+02	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					5.00E-01	B				ND					6.60E-01	B		YES	
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	1.28E+01				YES	2.57E+01				YES	1.54E+01				YES	2.28E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	1.03E+02	J	YES		YES	3.80E+02		YES		YES	1.44E+02		YES		YES	3.33E+02		YES		YES
VOLATILE ORGANIC COMPOUNDS																								
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					ND					ND					ND				
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	ND					ND					ND					ND				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	2.20E-03	J				ND					ND					ND				
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					ND					ND				
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND					ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	2.40E-03	B				4.10E-03	B				5.30E-03	B				3.40E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	1.90E-03	J				ND					ND					ND				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	4.00E-03	J				ND					4.50E-03	J				ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					ND					ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP30					PPMP-75-GP31					PPMP-75-GP32					PPMP-75-GP33				
				Sample Number	KJ0059					KJ0061					KJ0063					KJ0065				
				Sample Date	21-Jan-99					27-Jan-99					27-Jan-99					27-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																								
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	6.80E-01	J				ND					5.30E-02	J				4.40E-02	J			
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					3.10E-01	J				ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					ND					ND					ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	6.90E-02	J				2.20E-01	J				1.70E-01	J				1.60E-01	J			
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	ND					2.40E-01	J			YES	2.20E-01	J			YES	1.50E-01	J			YES
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	2.70E-01	J				4.40E-01					4.30E-01	J				3.30E-01	J			
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	3.40E-01	J		YES	YES	6.10E-01			YES	YES	6.90E-01			YES	YES	5.10E-01			YES	YES
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	5.10E-01	J				9.50E-01			YES		8.60E-01			YES		5.60E-01				
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	3.80E-01	J				4.60E-01					4.00E-01	J				3.50E-01	J			
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	2.20E-01	J				6.70E-01					9.10E-01					6.50E-01				
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	ND					ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	ND					1.10E-01	J				9.50E-02	J				5.40E-02	J			
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	3.70E-01	J				5.70E-01					6.10E-01					4.20E-01	J			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND					ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	1.00E-01	J		YES		1.90E-01	J		YES		2.00E-01	J		YES		1.50E-01	J		YES	
Dibenzofuran	mg/kg	NA	3.09E+01	NA	9.80E-02	J				ND					ND					ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	4.50E-01	J			YES	5.20E-01				YES	5.30E-01				YES	5.30E-01				YES
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					ND					ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	3.20E-01	J				4.70E-01					4.20E-01	J				3.50E-01	J			
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	2.20E-01	J	YES		YES	ND					ND					ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	3.30E-01	J			YES	1.60E-01	J			YES	2.20E-01	J			YES	2.00E-01	J			YES
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	4.00E-01	J			YES	5.30E-01				YES	5.50E-01				YES	5.20E-01				YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	ND					5.60E-02	J				6.10E-02	J				1.30E-01	J			
HERBICIDES																								
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND					ND				
PESTICIDES																								
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	ND					ND					ND					ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	ND					5.20E-03	J			YES	9.90E-03				YES	2.00E-02	J			YES
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	6.90E-03	J			YES	1.70E-02				YES	2.30E-02				YES	2.40E-02	J			YES
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND					ND					ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					ND					ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					ND					3.40E-03	J			YES	ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	7.60E-03	J				ND					6.80E-03	J				ND				
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	2.40E-02	J			YES	1.30E-02	J				2.20E-02	P			YES	ND				
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND					ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	7.40E-03	J				ND					9.00E-03	J				4.00E-03	J			
PCBs																								
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP34					PPMP-75-GP35					PPMP-75-GP36					PPMP-75-GP37				
				Sample Number	KJ0067					KJ0069					KJ0073					KJ0075				
				Sample Date	27-Jan-99					27-Jan-99					27-Jan-99					27-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	1.06E+04			YES	YES	1.07E+04			YES	YES	9.72E+03			YES	YES	9.15E+03			YES	YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					ND					ND					ND				
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	1.93E+01	J	YES	YES	YES	1.45E+01	J	YES	YES	YES	2.75E+01	J	YES	YES	YES	2.93E+01	J	YES	YES	YES
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	1.26E+02		YES			7.13E+01					9.81E+01					1.34E+02		YES		
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	1.50E+00	J	YES		YES	8.10E-01	J	YES			8.40E-01	J	YES			7.40E-01	J			
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					ND					ND					ND				
Calcium	mg/kg	1.72E+03	NA	NA	1.32E+04		YES			2.74E+03		YES			2.94E+03		YES			3.16E+03		YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	2.27E+01				YES	2.46E+01			YES	YES	2.79E+01			YES	YES	1.71E+01				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	5.70E+00	J				5.50E+00	J				7.90E+00					4.10E+00	J			
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	2.64E+01	J	YES			2.68E+01	J	YES			2.63E+01	J	YES			3.24E+01	J	YES		
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	2.55E+04			YES	YES	3.58E+04		YES	YES	YES	2.25E+04			YES	YES	2.82E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	2.16E+02		YES		YES	9.74E+01		YES		YES	1.89E+02		YES		YES	8.90E+01		YES		YES
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	4.20E+03		YES			1.87E+03		YES			2.56E+03		YES			1.27E+03		YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	4.44E+02	J		YES	YES	1.16E+02	J			YES	1.86E+02	J			YES	1.04E+02	J			YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	4.90E-02	J				4.80E-02					7.80E-02					7.90E-02				
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	1.84E+01		YES			1.43E+01		YES			2.08E+01		YES			1.08E+01		YES		
Potassium	mg/kg	8.00E+02	NA	NA	6.21E+02	J				3.36E+02	J				3.88E+02	J				4.60E+02	J			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	1.60E+00		YES		YES	2.10E+00		YES		YES	1.50E+00		YES		YES	2.50E+00		YES		YES
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	2.53E+02	B				1.02E+02	B				1.63E+02	B				1.24E+02	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					ND					ND					ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	2.64E+01				YES	3.30E+01				YES	2.31E+01				YES	2.97E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	6.67E+02		YES		YES	1.84E+02		YES		YES	3.15E+02		YES		YES	2.24E+02		YES		YES
VOLATILE ORGANIC COMPOUNDS																								
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					ND					ND					ND				
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	ND					ND					ND					ND				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	ND					ND					ND					ND				
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					ND					ND				
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND					ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	4.40E-03	B				2.90E-03	B				4.10E-03	B				3.80E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					ND					ND					ND				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	4.00E-03	J				ND					ND					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					ND					ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP34					PPMP-75-GP35					PPMP-75-GP36					PPMP-75-GP37				
				Sample Number	KJ0067					KJ0069					KJ0073					KJ0075				
				Sample Date	27-Jan-99					27-Jan-99					27-Jan-99					27-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																								
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					5.30E-02	J				ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					ND					ND					ND				
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND					ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					ND					ND					ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	1.70E-01	J				7.90E-02	J				1.80E-01	J				4.50E-02	J			
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	1.80E-01	J			YES	8.00E-02	J				2.40E-01	J			YES	6.30E-02	J			
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	4.10E-01	J				1.70E-01	J				3.20E-01	J				1.60E-01	J			
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	5.40E-01			YES	YES	2.20E-01	J		YES	YES	4.00E-01	J		YES	YES	1.90E-01	J		YES	YES
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	8.70E-01			YES		2.80E-01	J				7.70E-01					3.40E-01	J			
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	4.40E-01	J				1.60E-01	J				2.30E-01	J				6.10E-02	J			
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	5.20E-01					3.30E-01	J				5.40E-01					2.90E-01	J			
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	ND					ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	6.20E-02	J				4.20E-02	J				8.40E-02	J				ND				
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	5.10E-01					2.80E-01	J				4.90E-01					2.90E-01	J			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	6.90E-02	J				ND					7.60E-02	J				5.90E-02	J			
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	2.10E-01	J		YES		6.90E-02	J				1.10E-01	J		YES		ND				
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					ND					ND					ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	4.30E-01	J			YES	2.70E-01	J			YES	4.40E-01				YES	1.90E-01	J			YES
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					ND					ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	4.70E-01	J				1.50E-01	J				2.50E-01	J				7.60E-02	J			
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	5.40E-02	J				ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					ND					1.10E-01	J	YES		YES	ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	1.20E-01	J			YES	6.60E-02	J				1.10E-01	J			YES	9.30E-02	J			
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	4.70E-01	J			YES	2.60E-01	J			YES	4.70E-01				YES	2.20E-01	J			YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	1.90E-01	J				6.30E-02	J				3.80E-01	J				1.40E-01	J			
HERBICIDES																								
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND					ND				
PESTICIDES																								
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	ND					ND					ND					ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	6.60E-03	J			YES	ND					6.30E-03	J			YES	ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	2.50E-02	P			YES	3.10E-03	J			YES	7.70E-03	J			YES	ND				
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND					ND					ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					ND					ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					ND					ND					ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	6.40E-03	J				ND					ND					ND				
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	2.00E-02	J			YES	ND					ND					ND				
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND					ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	6.80E-03	J				2.60E-03	J				3.30E-03	J				2.50E-03	J			
PCBs																								
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP38					PPMP-75-GP40					PPMP-75-GP41					PPMP-75-GP42				
				Sample Number	KJ0078					KJ0082					KJ0084					KJ0087				
				Sample Date	27-Jan-99					26-Jan-99					25-Jan-99					25-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	1.00E+04			YES	YES	6.95E+03				YES	3.84E+03				YES	1.60E+04			YES	YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					1.30E+00	J				1.70E-01	J				6.10E-01	J			
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	2.68E+01	J	YES	YES	YES	1.67E+01		YES	YES	YES	5.40E+00			YES		7.70E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	1.70E+02		YES		YES	2.16E+02	J	YES		YES	2.23E+02		YES		YES	1.32E+03		YES	YES	YES
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	2.00E+00	J	YES		YES	8.50E-01	J	YES			5.50E-01	J				3.30E+00		YES		YES
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					5.40E-01	J	YES			3.20E-01	J	YES			1.80E-01	J			
Calcium	mg/kg	1.72E+03	NA	NA	1.88E+04		YES			1.00E+04		YES			4.70E+04	J	YES			6.11E+04	J	YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.42E+01				YES	1.40E+02	J	YES	YES	YES	7.80E+00				YES	7.20E+00				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	5.10E+00	J				5.90E+00	J				7.00E+00					4.90E+00	J			
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	2.47E+01	J	YES			5.57E+01		YES		YES	1.13E+01					2.13E+01		YES		
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	2.26E+04			YES	YES	1.90E+04			YES	YES	1.69E+04	J		YES	YES	1.24E+04	J		YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	1.44E+02		YES		YES	1.88E+02	J	YES		YES	1.80E+01					3.69E+01				
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	3.68E+03		YES			2.21E+03		YES			9.76E+02					9.96E+03		YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	3.70E+02	J		YES	YES	4.07E+02			YES	YES	8.38E+02			YES	YES	7.54E+02			YES	YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	6.90E-02					1.40E-01		YES		YES	ND					ND				
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	1.25E+01		YES			6.26E+01		YES		YES	7.00E+00					7.40E+00				
Potassium	mg/kg	8.00E+02	NA	NA	1.02E+03		YES			8.09E+02	J	YES			1.14E+03		YES			2.73E+03		YES		
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	2.10E+00		YES		YES	1.50E+00		YES		YES	ND					7.80E-01		YES		
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					8.00E-02	J				ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	2.11E+02	B				1.12E+02	B				2.90E+01	B				3.22E+02	J			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					6.70E-01	B		YES		1.50E+00	B		YES	YES	1.20E+00	B		YES	YES
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	2.38E+01				YES	1.97E+01				YES	1.19E+01	J			YES	1.70E+01	J			YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	1.60E+02		YES		YES	2.07E+02		YES		YES	2.62E+01					5.88E+01		YES		YES
VOLATILE ORGANIC COMPOUNDS																								
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					ND					ND					ND				
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	ND					ND					ND					ND				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	ND					ND					ND					ND				
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					ND					ND				
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND					ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	4.10E-03	B				2.80E-03	B				1.80E-03	B				2.60E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					ND					ND					ND				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	5.20E-03	J				ND					ND					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					ND					ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP38					PPMP-75-GP40					PPMP-75-GP41					PPMP-75-GP42				
				Sample Number	KJ0078					KJ0082					KJ0084					KJ0087				
				Sample Date	27-Jan-99					26-Jan-99					25-Jan-99					25-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																								
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	5.10E-02	J				ND					ND					3.30E-01	J			
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND					ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					2.00E-01	J				ND					1.50E-01	J			
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	1.10E-01	J				3.10E-01	J				1.60E-01	J				1.80E-01	J			
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	1.20E-01	J			YES	7.50E-01	J			YES	2.40E-01	J			YES	3.40E-01	J			YES
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	2.20E-01	J				3.10E+00		YES	YES		1.30E+00		YES	YES		1.30E+00		YES	YES	
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	3.50E-01	J		YES	YES	3.30E+00		YES	YES	YES	8.60E-01			YES	YES	1.70E+00		YES	YES	YES
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	4.30E-01					6.00E+00		YES	YES		3.40E+00		YES	YES		2.60E+00		YES	YES	
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	1.20E-01	J				2.00E+00		YES			1.30E+00		YES			1.30E+00		YES		
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	5.50E-01					2.10E+00		YES			1.30E+00					1.00E+00				
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	ND					ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	5.20E-02	J				1.90E-01	J				1.20E-01	J				4.40E-01	J			
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	3.80E-01	J				3.80E+00		YES			3.10E+00		YES			1.80E+00		YES		
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND					ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	6.70E-02	J				5.70E-01	J		YES		3.40E-01	J		YES		3.10E-01	J		YES	
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					ND					ND					1.70E-01	J			
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	4.00E-01	J			YES	5.40E+00		YES		YES	1.90E+00				YES	3.70E+00		YES		YES
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					ND					ND					1.50E-01	J			
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	1.60E-01	J				2.00E+00		YES	YES		1.40E+00		YES	YES		1.30E+00		YES	YES	
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					ND					ND					3.70E-01	J	YES		YES
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	2.10E-01	J			YES	1.20E+00	J	YES		YES	2.90E-01	J			YES	2.70E+00		YES		YES
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	4.30E-01				YES	4.90E+00		YES		YES	1.10E+00				YES	2.90E+00		YES		YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	9.40E-02	J				ND					1.30E+00				YES	ND				
HERBICIDES																								
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND					ND				
PESTICIDES																								
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	ND					ND					ND					8.60E-03	J			YES
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	5.30E-03	J			YES	ND					2.20E-03					ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	5.80E-03	J			YES	ND					6.00E-03	J			YES	ND				
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND					ND					ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					ND					ND					2.80E-03	J			
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					ND					ND					ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					2.20E-03					6.50E-03	J			
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					5.40E-03					5.80E-03	J			
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	1.40E-02	J				ND					ND					ND				
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND					ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	1.00E-02	J				ND					ND					ND				
PCBs																								
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP43					PPMP-75-GP44					PPMP-75-GP45					PPMP-75-GP46				
				Sample Number	KJ0089					KJ0091					KJ0093					KJ0095				
				Sample Date	25-Jan-99					25-Jan-99					25-Jan-99					25-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	1.26E+04			YES	YES	1.20E+04			YES	YES	2.45E+03				YES	3.15E+03	J			YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	7.30E-01	J				3.20E-01	J				2.70E-01	J				1.60E-01	J			
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	1.32E+01			YES	YES	6.00E+00			YES		1.92E+01		YES	YES	YES	5.80E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	1.15E+02					1.74E+02		YES		YES	1.20E+02					3.19E+02	J	YES		YES
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	1.20E+00		YES		YES	2.20E+00		YES		YES	5.90E-01					2.90E-01	B			
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	3.40E-01	J	YES			4.00E-01	J	YES			5.40E-01	J	YES			5.30E-01	J	YES		
Calcium	mg/kg	1.72E+03	NA	NA	7.42E+03	J	YES			6.70E+04	J	YES			2.39E+05	J	YES			1.89E+05	J	YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.92E+01				YES	1.19E+01				YES	6.60E+00				YES	7.70E+00				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	1.71E+01		YES			4.50E+00	J				5.70E+00	J				2.80E+00	J			
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	3.76E+01		YES			1.51E+01		YES			1.04E+01					8.60E+00	J			
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	2.96E+04	J		YES	YES	1.36E+04	J		YES	YES	1.49E+04	J		YES	YES	7.73E+03	J		YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	4.43E+01		YES			1.07E+02		YES		YES	3.49E+01					3.74E+01	J			
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	6.34E+03		YES			1.21E+04		YES			9.42E+03		YES			9.70E+03	J	YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	2.83E+02				YES	5.54E+02			YES	YES	2.91E+02				YES	9.95E+01	J			
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	4.00E-02	J				ND					9.00E-02	J	YES			ND				
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	3.41E+01		YES		YES	8.00E+00					8.10E+00					7.30E+00				
Potassium	mg/kg	8.00E+02	NA	NA	5.69E+02	J				1.55E+03		YES			1.65E+02	J				1.65E+02	B			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	6.90E-01		YES			4.20E-01	J				ND					ND				
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	6.60E+01	B				1.98E+02	J				5.29E+01	B				4.02E+01	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					7.50E-01	B		YES		5.00E-01	B				ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	2.60E+01	J			YES	1.86E+01	J			YES	5.30E+00	J			YES	7.00E+00				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	9.97E+01		YES		YES	9.96E+01		YES		YES	4.91E+01		YES			5.70E+01	J	YES		YES
VOLATILE ORGANIC COMPOUNDS																								
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					ND					ND					ND				
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	1.30E-02	J				ND					ND					ND				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	ND					2.00E-03	J				ND					ND				
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					ND					ND				
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND					ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	2.50E-03	B				3.40E-03	B				2.60E-03	B				2.10E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					3.40E-02	J				ND					ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					ND					ND					ND				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	ND					ND					ND					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					ND					ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP43					PPMP-75-GP44					PPMP-75-GP45					PPMP-75-GP46				
				Sample Number	KJ0089					KJ0091					KJ0093					KJ0095				
				Sample Date	25-Jan-99					25-Jan-99					25-Jan-99					25-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																								
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					1.80E-01	J				ND					ND				
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND					ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					5.30E-01	J				ND					ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	1.10E-01	J				ND					1.30E+00	J	YES			ND				
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	9.40E-02	J				1.20E+00		YES		YES	4.30E+00		YES		YES	ND				
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	5.20E-01					2.00E+00		YES	YES		1.10E+01		YES	YES	YES	1.30E-01	J			
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	5.80E-01			YES	YES	2.20E+00		YES	YES	YES	9.70E+00		YES	YES	YES	1.50E-01	J		YES	YES
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	1.00E+00			YES		3.10E+00		YES	YES		2.30E+01		YES	YES		3.50E-01	J			
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	5.70E-01					1.50E+00		YES			5.00E+00	J	YES			1.10E-01	J			
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	4.10E-01					1.10E+00					7.80E+00		YES			1.20E-01	J			
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	ND					ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	ND					5.90E-01	J				8.10E-01	J				ND				
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	6.40E-01					2.10E+00		YES			1.40E+01		YES		YES	1.40E-01	J			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND					ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	9.40E-02	J		YES		3.60E-01	J		YES		1.80E+00	J	YES	YES		ND				
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					4.40E-01	J				ND					ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	8.20E-01				YES	5.50E+00		YES		YES	1.10E+01		YES		YES	1.20E-01	J			YES
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					6.80E-01	J	YES			ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	5.20E-01					1.50E+00		YES	YES		5.80E+00	J	YES	YES		1.20E-01	J			
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					3.80E-01	J	YES		YES	ND					ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	2.80E-01	J			YES	4.90E+00		YES		YES	1.00E+00	J			YES	ND				
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	6.70E-01				YES	3.90E+00		YES		YES	1.10E+01		YES		YES	1.20E-01	J			YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	ND					ND					ND					ND				
HERBICIDES																								
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND					ND				
PESTICIDES																								
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	2.70E-02	J			YES	ND					ND					ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	1.50E-01				YES	2.60E-03				YES	ND					ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	1.20E-01	PG			YES	9.40E-03				YES	4.50E-02				YES	2.90E-03				YES
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND					ND					ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					5.40E-03					ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					ND					ND					ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					4.40E-03	J				2.70E-02				YES	ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	ND					5.60E-03	J				1.40E-01				YES	2.40E-03				
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	ND					ND					ND					ND				
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND					ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	ND					ND					ND					ND				
PCBs																								
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP47					PPMP-75-GP48					PPMP-75-GP49					PPMP-75-GP51				
				Sample Number	KJ0099					KJ0101					KJ0103					KJ0106				
				Sample Date	25-Jan-99					28-Jan-99					28-Jan-99					22-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	1.12E+04	J		YES	YES	9.09E+03			YES	YES	9.73E+03			YES	YES	5.70E+03	J			YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	1.90E-01	J				ND					ND					ND				
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	6.30E+00			YES		6.50E+00			YES		6.80E+00			YES		7.60E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	4.39E+01	J				1.92E+02		YES		YES	1.03E+02					5.54E+01				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	6.00E-01	J				1.20E+00		YES		YES	7.70E-01					3.60E-01	J			
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	4.00E-02	J				ND					ND					ND				
Calcium	mg/kg	1.72E+03	NA	NA	1.29E+03					1.26E+04	J	YES			2.51E+04	J	YES			1.87E+03	J	YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.76E+01				YES	1.26E+01	J			YES	1.39E+01	J			YES	1.64E+01	J			YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	7.40E+00					4.90E+00	J				8.90E+00	J				2.60E+00	J			
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	2.46E+01	J	YES			2.48E+01		YES			3.01E+01		YES			1.19E+01				
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	3.08E+04	J		YES	YES	2.00E+04			YES	YES	2.29E+04			YES	YES	1.68E+04	J		YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	1.79E+01	J				8.23E+01		YES		YES	1.90E+01					4.06E+01	J	YES		
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	1.56E+03	J	YES			3.41E+03		YES			8.54E+03		YES			1.06E+03	J	YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	4.35E+01	J				4.36E+02			YES	YES	3.44E+02				YES	2.51E+02	J			YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	ND					5.30E-02					5.10E-02					3.60E-02	J			
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	1.41E+01		YES			9.30E+00					1.51E+01		YES			7.80E+00	J			
Potassium	mg/kg	8.00E+02	NA	NA	4.40E+02	J				4.33E+02	J				5.34E+02	J				5.78E+02				
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	1.40E+00		YES		YES	1.60E+00		YES		YES	1.20E+00		YES		YES	1.20E+00		YES		YES
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	4.15E+01	B				1.50E+02	B				9.65E+01	B				1.00E+02	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	6.90E-01	B		YES		ND					ND					ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	2.76E+01				YES	1.95E+01				YES	2.23E+01				YES	1.63E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	4.26E+01	J	YES			9.64E+01		YES		YES	5.81E+01		YES		YES	5.33E+01		YES		YES
VOLATILE ORGANIC COMPOUNDS																								
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					ND					ND					ND				
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	ND					1.60E-02	J				6.80E-03	J				8.80E-03	B			
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	ND					ND					ND					1.60E-03	B			
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					ND					ND				
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND					ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	2.20E-03	B				2.90E-03	B				2.90E-03	B				1.90E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					ND					ND					ND				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	ND					ND					ND					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					ND					ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP47					PPMP-75-GP48					PPMP-75-GP49					PPMP-75-GP51				
				Sample Number	KJ0099					KJ0101					KJ0103					KJ0106				
				Sample Date	25-Jan-99					28-Jan-99					28-Jan-99					22-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																								
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					4.80E-02	J				ND					ND				
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND					ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					ND					ND					ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	ND					3.10E-01	J				7.90E-02	J				ND				
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	5.70E-02	J				1.70E-01	J			YES	4.90E-02	J				ND				
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	3.30E-01	J				3.60E-01	J				1.10E-01	J				1.30E-01	J			
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	4.00E-01	J		YES	YES	7.90E-01			YES	YES	1.70E-01	J		YES	YES	1.80E-01	J		YES	YES
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	7.00E-01					7.20E-01					2.20E-01	J				3.50E-01	J			
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	2.30E-01	J				6.80E-01					1.80E-01	J				1.50E-01	J			
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	2.60E-01	J				8.70E-01					1.20E-01	J				1.10E-01	J			
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	ND					ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	ND					5.20E-02	J				ND					ND				
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	4.50E-01					4.80E-01					1.60E-01	J				2.00E-01	J			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND					ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	6.80E-02	J				2.70E-01	J		YES		6.80E-02	J				ND				
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					ND					ND					ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	6.80E-01				YES	4.20E-01	J			YES	1.20E-01	J			YES	2.30E-01	J			YES
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					ND					ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	2.50E-01	J				6.30E-01					1.50E-01	J				1.60E-01	J			
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					ND					ND					ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	2.70E-01	J			YES	1.20E-01	J			YES	5.70E-02	J				1.00E-01	J			YES
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	4.80E-01				YES	4.60E-01				YES	1.20E-01	J			YES	1.80E-01	J			YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	ND					ND					ND					8.40E-02	J			
HERBICIDES																								
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND					ND				
PESTICIDES																								
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	ND					ND					ND					ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	ND					ND					ND					2.70E-03	J			YES
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	2.40E-03					3.90E-03	J			YES	ND					6.30E-03	J			YES
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND					ND					ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					ND					ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					ND					ND					ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	2.30E-03					ND					ND					ND				
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	ND					1.10E-02	J				ND					ND				
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND					ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	ND					ND					2.80E-03	J				7.90E-04	J			
PCBs																								
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP52					PPMP-75-GP53					PPMP-75-GP54					PPMP-75-GP56					PPMP-75-GP57				
				Sample Number	KJ0108					KJ0110					KJ0112					KJ0118					KJ0120				
				Sample Date	22-Jan-99					25-Jan-99					25-Jan-99					26-Jan-99					26-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
METALS																													
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	5.53E+03	J			YES	5.44E+03	J			YES	7.19E+03	J			YES	1.10E+04			YES	YES	2.07E+04		YES	YES	YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					5.70E-01	J				6.70E-01	J				6.90E-01	B				6.50E-01	B			
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	6.40E+00			YES		1.36E+01			YES	YES	1.42E+01		YES	YES	YES	1.55E+01		YES	YES	YES	1.00E+01			YES	YES
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	9.12E+01					1.14E+02	J				2.33E+02	J	YES		YES	1.70E+02	J	YES		YES	5.11E+02	J	YES		YES
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	4.20E-01	J				1.30E+00		YES		YES	9.70E-01		YES			1.50E+00	J	YES		YES	4.90E+00	J	YES		YES
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					2.80E-01	J				3.30E-01	J	YES			1.80E-01	J				1.40E+00		YES		
Calcium	mg/kg	1.72E+03	NA	NA	3.11E+03	J	YES			4.80E+03		YES			8.76E+03		YES			7.55E+03		YES			5.26E+04		YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	2.11E+01	J			YES	3.98E+01		YES	YES	YES	1.39E+01				YES	5.31E+01	J	YES	YES	YES	2.24E+01	J			YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	3.70E+00	J				6.30E+00	J				7.60E+00					1.23E+01					7.50E+00				
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	1.20E+01					3.03E+01	J	YES			2.85E+01	J	YES			1.84E+01		YES			2.09E+01		YES		
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	1.76E+04	J		YES	YES	1.70E+04	J		YES	YES	1.86E+04	J		YES	YES	3.99E+04		YES	YES	YES	3.13E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	8.83E+01	J	YES		YES	1.07E+02	J	YES		YES	3.36E+01	J				2.17E+02	J	YES		YES	2.74E+02	J	YES		YES
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	1.16E+03	J	YES			1.22E+03	J	YES			1.88E+03	J	YES			1.61E+03		YES			7.41E+03		YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	5.09E+02	J		YES	YES	2.82E+02	J			YES	2.75E+02	J			YES	8.04E+02			YES	YES	1.67E+03		YES	YES	YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	4.30E-02					1.10E+00		YES		YES	1.50E-01		YES		YES	5.00E-02	J				7.00E-02	J			
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	6.50E+00	J				3.09E+01		YES		YES	1.29E+01		YES			1.26E+01		YES			7.80E+00				
Potassium	mg/kg	8.00E+02	NA	NA	3.63E+02	J				4.90E+02	J				6.94E+02					7.02E+02	J				3.97E+03	J	YES		
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	1.10E+00		YES		YES	1.10E+00		YES		YES	1.60E+00		YES		YES	1.50E+00		YES		YES	1.80E+00		YES		YES
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND					7.00E-02	J				1.90E-01	J			
Sodium	mg/kg	6.34E+02	NA	NA	1.08E+02	B				7.80E+01	B				1.05E+02	B				1.82E+02	J				2.71E+02	J			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					8.60E-01	B		YES		8.10E-01	B		YES		ND					ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	1.95E+01				YES	2.49E+01				YES	2.71E+01				YES	3.93E+01				YES	2.66E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	6.16E+01	J	YES		YES	8.44E+01	J	YES		YES	2.88E+01	J				1.29E+02		YES		YES	5.26E+02		YES		YES
VOLATILE ORGANIC COMPOUNDS																													
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					ND					ND					ND					ND				
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	8.40E-03	B				ND					1.50E-02	J				ND					ND				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND					ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	2.10E-03	B				ND					ND					ND					1.40E-03	J			
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					ND					ND					ND				
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND					ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND					ND					ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	2.80E-03	B				3.20E-03	B				2.80E-03	B				4.60E-03	B				2.60E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND					ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					ND					ND					ND					ND				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	ND					ND					ND					ND					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					ND					ND					ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP52					PPMP-75-GP53					PPMP-75-GP54					PPMP-75-GP56					PPMP-75-GP57				
				Sample Number	KJ0108					KJ0110					KJ0112					KJ0118					KJ0120				
				Sample Date	22-Jan-99					25-Jan-99					25-Jan-99					26-Jan-99					26-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																													
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					ND					ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					ND					ND					ND					ND				
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND					ND					ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					ND					ND					ND					ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	6.30E-02	J				ND					1.20E-01	J				ND					ND				
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	4.50E-02	J				ND					1.10E-01	J			YES	ND					ND				
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	2.60E-01	J				3.70E-01	J				1.10E+00			YES		ND					6.10E-02	J			
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	4.00E-01			YES	YES	3.80E-01	J		YES	YES	8.40E-01			YES	YES	ND					9.40E-02	J		YES	
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	7.50E-01					7.70E-01					1.60E+00			YES		ND					1.50E-01	J			
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	2.80E-01	J				2.20E-01	J				4.20E-01	J				ND					8.00E-02	J			
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	2.40E-01	J				2.60E-01	J				5.80E-01					ND					6.00E-02	J			
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	ND					ND					ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	4.30E-02	J				ND					ND					ND					ND				
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	3.80E-01					5.20E-01					1.20E+00					ND					9.10E-02	J			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND					ND					ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	7.50E-02	J				7.50E-02	J				1.50E-01	J		YES		ND					ND				
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					ND					ND					ND					ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	3.70E-01	J			YES	4.60E-01				YES	1.40E+00				YES	ND					1.10E-01	J			YES
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					ND					ND					ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	2.90E-01	J				2.40E-01	J				4.80E-01					ND					8.10E-02	J			
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND					ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					ND					ND					ND					ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	9.40E-02	J				ND					1.10E-01	J			YES	ND					ND				
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	3.10E-01	J			YES	4.10E-01	J			YES	1.10E+00				YES	ND					8.70E-02	J			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	ND					ND					ND					ND					ND				
HERBICIDES																													
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND					ND					ND				
PESTICIDES																													
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	1.40E-03	J				ND					ND					2.70E-02				YES	ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	7.90E-03	J			YES	6.60E-03				YES	ND					ND					ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	1.70E-02				YES	2.40E-02				YES	8.60E-03	J			YES	1.50E-01				YES	1.70E-02				YES
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND					ND					ND					ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	9.20E-04	J				ND					ND					ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					ND					ND					ND					ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					ND					ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	2.30E-03	J				1.20E-02	J			YES	1.40E-02				YES	ND					ND				
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND					ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	4.40E-03	J				1.00E-02	J				ND					ND					ND				
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND					ND					ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND					ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	ND					ND					ND					ND					ND				
PCBs																													
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP58					PPMP-75-GP59					PPMP-75-GP60					PPMP-75-GP61				
				Sample Number	KJ0122					KJ0124					KJ0126					KJ0128				
				Sample Date	26-Jan-99					26-Jan-99					26-Jan-99					26-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	1.29E+03				YES	3.96E+03				YES	3.56E+03				YES	7.96E+03			YES	YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					ND					ND					6.50E-01	J			
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	2.50E+00			YES		3.90E+00			YES		4.30E+00			YES		1.76E+01		YES	YES	YES
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	9.70E+00	J				3.99E+01	J				6.41E+01	J				9.19E+01				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	1.40E-01	B				4.00E-01	B				3.90E-01	B				1.20E+00		YES		YES
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	1.00E-01	J				ND					2.00E-01	J				5.10E-01	J	YES		
Calcium	mg/kg	1.72E+03	NA	NA	8.31E+04		YES			1.38E+04		YES			9.54E+03		YES			1.04E+04		YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	7.60E+00	J			YES	1.61E+01	J			YES	2.54E+01	J		YES	YES	1.26E+01				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	1.10E+00	J				2.70E+00	J				3.80E+00	J				5.30E+00	J			
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	2.70E+00	J				6.00E+00					7.20E+00					1.56E+01		YES		
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	5.43E+03			YES	YES	1.71E+04			YES	YES	1.36E+04			YES	YES	1.88E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	5.50E+00	J				5.90E+00	J				2.23E+01	J				1.58E+02	J	YES		YES
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	4.48E+04		YES			7.69E+03		YES			5.13E+03		YES			2.42E+03		YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	4.25E+01					1.06E+02				YES	3.53E+02				YES	4.21E+02	J		YES	YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	ND					ND					ND					9.00E-02	J	YES		
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	1.60E+00	J				5.70E+00					1.02E+01					7.60E+00				
Potassium	mg/kg	8.00E+02	NA	NA	1.16E+02	B				3.51E+02	J				3.82E+02	J				4.82E+02	J			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	ND					ND					4.20E-01	B				7.70E-01		YES		
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND					8.00E-02	J			
Sodium	mg/kg	6.34E+02	NA	NA	8.62E+01	B				4.18E+01	B				4.37E+01	B				8.18E+01	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					5.80E-01	B		YES		5.70E-01	B		YES		ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	1.03E+01				YES	2.52E+01				YES	1.88E+01				YES	2.29E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	9.10E+00					1.17E+01					3.02E+01					1.67E+02		YES		YES
VOLATILE ORGANIC COMPOUNDS																								
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					ND					ND					ND				
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	6.40E-03	J				1.60E-02	J				1.50E-02	J				1.50E-02	J			
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	ND					ND					ND					1.30E-03	J			
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					ND					ND				
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND					ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	3.20E-03	B				3.30E-03	B				3.10E-03	B				3.30E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					ND					ND					ND				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	ND					ND					ND					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					ND					ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP58					PPMP-75-GP59					PPMP-75-GP60					PPMP-75-GP61				
				Sample Number	KJ0122					KJ0124					KJ0126					KJ0128				
				Sample Date	26-Jan-99					26-Jan-99					26-Jan-99					26-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																								
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					ND					ND					ND				
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND					ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					ND					ND					ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	ND					ND					ND					1.20E-01	J			
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	1.50E-01	J			YES	ND					5.60E-02	J				9.20E-02	J			
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	8.60E-02	J				ND					2.00E-01	J				7.10E-01				
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	1.20E-01	J		YES	YES	ND					2.70E-01	J		YES	YES	6.80E-01	J		YES	YES
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	1.80E-01	J				ND					3.70E-01	J				1.30E+00			YES	
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	1.10E-01	J				ND					1.70E-01	J				3.60E-01	J			
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	6.50E-02	J				ND					1.60E-01	J				4.70E-01				
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	ND					ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	ND					ND					ND					ND				
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	1.20E-01	J				ND					2.50E-01	J				8.90E-01				
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND					ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	ND					ND					ND					1.20E-01	J		YES	
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					ND					ND					ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	2.60E-01	J			YES	ND					5.00E-01				YES	1.40E+00				YES
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					ND					ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	1.00E-01	J				ND					1.70E-01	J				4.20E-01				
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					ND					ND					ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	1.50E-01	J			YES	ND					3.00E-01	J			YES	2.50E-01	J			YES
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	1.90E-01	J			YES	ND					3.50E-01	J			YES	9.70E-01				YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	ND					ND					ND					ND				
HERBICIDES																								
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND					ND				
PESTICIDES																								
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	ND					ND					ND					ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	ND					ND					ND					ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	ND					ND					ND					ND				
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND					ND					ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					ND					ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					ND					ND					ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					ND				
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	ND					ND					ND					ND				
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND					ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND					2.00E-03	J			YES
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	ND					ND					ND					ND				
PCBs																								
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP62					PPMP-75-GP65					PPMP-75-GP66					PPMP-75-GP67				
				Sample Number	KJ0132					KJ0136					KJ0138					KJ0140				
				Sample Date	26-Jan-99					26-Jan-99					27-Jan-99					27-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	1.01E+04			YES	YES	6.18E+03				YES	2.08E+03				YES	1.15E+04			YES	YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	3.80E-01	J				5.40E-01	B				ND					ND				
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	7.90E+00			YES		6.00E+00			YES		4.00E+00	J		YES		7.20E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	1.17E+02					5.91E+01					2.29E+01					1.22E+02				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	1.60E+00		YES		YES	8.60E-01		YES			3.00E-01	J				1.10E+00		YES		YES
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	2.20E-01	J				2.00E-01	J				6.50E-01		YES			ND				
Calcium	mg/kg	1.72E+03	NA	NA	2.99E+04		YES			1.51E+04		YES			1.75E+05		YES			1.92E+04	J	YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	8.20E+00				YES	1.16E+01				YES	7.30E+00				YES	1.78E+01	J			YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	7.90E+00					3.00E+00	J				1.80E+00	J				1.01E+01	J			
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	1.65E+01		YES			7.90E+00					1.08E+01	J				2.36E+01		YES		
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	9.37E+03			YES	YES	1.35E+04			YES	YES	6.06E+03			YES	YES	3.00E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	2.13E+02	J	YES		YES	2.84E+01	J				2.12E+01					2.73E+01				
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	7.15E+03		YES			5.28E+03		YES			8.05E+04		YES			4.14E+03		YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	5.94E+02	J		YES	YES	3.46E+02	J			YES	1.35E+02	J			YES	3.23E+02				YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	5.00E-02	J				4.00E-02	J				2.00E-02	J				3.40E-02	B			
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	7.10E+00					3.80E+00	J				5.10E+00					2.01E+01		YES		
Potassium	mg/kg	8.00E+02	NA	NA	7.33E+02					6.26E+02					2.79E+02	J				3.77E+02	J			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	4.30E-01	J				8.30E-01		YES		YES	ND					1.60E+00		YES		YES
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	1.96E+02	J				8.71E+01	B				1.79E+02	B				1.74E+02	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					ND					ND					ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	1.49E+01				YES	1.90E+01				YES	5.20E+00	J			YES	2.75E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	2.51E+02		YES		YES	4.79E+01		YES			9.23E+01		YES		YES	5.17E+01		YES		YES
VOLATILE ORGANIC COMPOUNDS																								
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					ND					ND					ND				
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	9.20E-03	J				1.10E-02	J				4.80E-03	J				ND				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	ND					ND					ND					ND				
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					ND					ND				
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND					ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	3.80E-03	B				5.00E-03	B				3.00E-03	B				2.40E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					ND					ND					5.20E-03	J			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	ND					4.40E-03	J				ND					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					ND					ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP62					PPMP-75-GP65					PPMP-75-GP66					PPMP-75-GP67				
				Sample Number	KJ0132					KJ0136					KJ0138					KJ0140				
				Sample Date	26-Jan-99					26-Jan-99					27-Jan-99					27-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																								
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					ND					ND					ND				
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND					ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					ND					ND					ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	8.50E-02	J				1.50E+00	J	YES			ND					ND				
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	ND					3.70E-01	J			YES	ND					ND				
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	4.00E-01	J				4.10E+00		YES	YES		ND					4.00E-02	J			
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	4.80E-01			YES	YES	5.40E+00		YES	YES	YES	8.60E-02	J		YES		5.20E-02	J			
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	9.00E-01			YES		8.00E+00		YES	YES		6.90E-02	J				5.00E-02	J			
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	2.50E-01	J				4.80E+00		YES			3.40E-02	J				5.10E-02	J			
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	3.50E-01	J				2.60E+00		YES			9.20E-02	J				5.80E-02	J			
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	ND					ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	ND					ND					ND					ND				
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	5.50E-01					4.70E+00		YES			ND					4.90E-02	J			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND					4.40E-02	J				ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	7.80E-02	J				1.00E+00	J	YES	YES		ND					ND				
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					ND					ND					ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	6.00E-01				YES	6.50E+00		YES		YES	2.60E-02	J				6.10E-02	J			
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					ND					ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	3.00E-01	J				4.00E+00		YES	YES		4.10E-02	J				4.40E-02	J			
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					ND					ND					ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	1.30E-01	J			YES	8.10E-01	J			YES	ND					ND				
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	4.10E-01	J			YES	5.40E+00		YES		YES	4.60E-02	J				5.60E-02	J			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	ND					ND					1.10E-01	J				5.20E-02	J			
HERBICIDES																								
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND					ND				
PESTICIDES																								
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	ND					ND					6.00E-02				YES	ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	ND					ND					1.30E-01				YES	ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	4.60E-03				YES	8.10E-02				YES	3.90E-01				YES	ND				
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND					ND					ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					ND					ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					ND					ND					ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					ND				
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	ND					ND					ND					ND				
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND					ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	ND					ND					ND					ND				
PCBs																								
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP69					PPMP-75-GP70					PPMP-75-GP71					PPMP-75-GP72				
				Sample Number	KJ0143					KJ0145					KJ0148					KJ0150				
				Sample Date	22-Jan-99					27-Jan-99					21-Jan-99					28-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	6.61E+03	J			YES	5.19E+03				YES	1.39E+04			YES	YES	1.26E+04			YES	YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					ND					ND					ND				
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	4.10E+00			YES		1.59E+01		YES	YES	YES	8.00E+00			YES		6.50E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	8.97E+01					5.31E+01					1.47E+02	J	YES			8.66E+01				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	6.60E-01	J				4.30E-01	J				3.00E+00		YES		YES	7.40E-01				
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					ND					ND					ND				
Calcium	mg/kg	1.72E+03	NA	NA	4.51E+03	J	YES			1.83E+03	J	YES			4.78E+04	J	YES			1.23E+03	J			
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.33E+01	J			YES	1.46E+01	J			YES	8.60E+00				YES	1.65E+01	J			YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	5.70E+00	J				2.50E+00	J				3.60E+00	J				6.30E+00	J			
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	2.05E+01		YES			1.38E+01		YES			1.33E+01		YES			2.91E+01		YES		
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	1.96E+04	J		YES	YES	2.17E+04			YES	YES	1.18E+04			YES	YES	2.50E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	2.99E+01	J				2.02E+02		YES		YES	5.33E+01	J	YES		YES	2.62E+01				
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	2.67E+03	J	YES			5.31E+02	J				6.98E+03		YES			2.09E+03		YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	3.09E+02	J			YES	1.71E+02				YES	9.27E+02	J		YES	YES	2.78E+02				YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	2.60E-02	J				6.70E-02					7.10E-02	B				5.40E-02				
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	1.02E+01	J				3.40E+00	J				6.10E+00					1.66E+01		YES		
Potassium	mg/kg	8.00E+02	NA	NA	4.91E+02	J				2.44E+02	J				1.87E+03		YES			4.18E+02	J			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	1.20E+00		YES		YES	1.80E+00		YES		YES	1.50E+00		YES		YES	1.60E+00		YES		YES
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	1.06E+02	B				9.46E+01	B				3.02E+02	J				1.02E+02	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					ND					ND					ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	2.06E+01				YES	2.96E+01				YES	2.27E+01				YES	2.48E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	4.14E+01	J	YES			2.13E+02		YES		YES	8.70E+01	J	YES		YES	5.78E+01		YES		YES
VOLATILE ORGANIC COMPOUNDS																								
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					ND					ND					ND				
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					6.30E-03	J				ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	1.80E-02	B				9.40E-03	J				ND					4.80E-02	J			
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	1.70E-03	B				ND					2.00E-03	J				ND				
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					ND					ND				
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND					ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	1.80E-03	B				3.00E-03	B				2.30E-03	B				3.30E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
Toluene	mg/kg	NA	1.55E+03	5.00E-02	8.40E-03					ND					5.40E-03	J				6.40E-03				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	ND					ND					3.90E-03	J				ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	9.00E-02	J				ND					ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	5.80E-03	J				ND					ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP69					PPMP-75-GP70					PPMP-75-GP71					PPMP-75-GP72				
				Sample Number	KJ0143					KJ0145					KJ0148					KJ0150				
				Sample Date	22-Jan-99					27-Jan-99					21-Jan-99					28-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																								
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					ND					ND					ND				
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND					ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					ND					ND					ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	4.40E-02	J				ND					5.90E-02	J				ND				
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	ND					5.20E-02	J				4.90E-02	J				ND				
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	2.00E-01	J				1.70E-01	J				2.60E-01	J				ND				
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	2.60E-01	J		YES	YES	2.10E-01	J		YES	YES	3.40E-01	J		YES	YES	ND				
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	3.60E-01	J				2.00E-01	J				5.90E-01	J				ND				
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	1.90E-01	J				1.60E-01	J				3.80E-01	J				ND				
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	1.30E-01	J				1.80E-01	J				1.70E-01	J				ND				
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	ND					ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	ND					6.20E-02	J				ND					ND				
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	2.10E-01	J				2.40E-01	J				3.70E-01	J				ND				
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND					ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	ND					5.70E-02	J				8.60E-02	J				ND				
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					ND					ND					ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	3.10E-01	J			YES	4.90E-01				YES	4.40E-01	J			YES	4.40E-02	J			
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					ND					ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	2.00E-01	J				1.40E-01	J				3.00E-01	J				ND				
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					ND					ND					ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	9.40E-02	J				3.40E-01	J			YES	1.80E-01	J			YES	ND				
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	2.30E-01	J			YES	4.70E-01				YES	3.90E-01	J			YES	4.20E-02	J			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	ND					ND					ND					5.00E-02	B			
HERBICIDES																								
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND					ND				
PESTICIDES																								
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	ND					ND					ND					ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	4.20E-03	J			YES	ND					1.80E-02	J			YES	ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	5.30E-03	J			YES	ND					2.30E-02	J			YES	ND				
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND					ND					ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					ND					ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					ND					ND					ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND					ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					3.80E-03	J				ND				
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	1.50E-03	J				ND					1.20E-02	J				ND				
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND					ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	9.50E-04	J				ND					1.00E-02	J				ND				
PCBs																								
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP73					PPMP-75-GP74					PPMP-75-GP75				
				Sample Number	KJ0152					KJ0154					KJ0156				
				Sample Date	22-Jan-99					22-Jan-99					21-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					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
METALS																			
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	1.19E+04	J		YES	YES	1.04E+04	J		YES	YES	7.07E+03				YES
Antimony	mg/kg	1.99E+00	3.11E+00	3.50E+00	ND					ND					ND				
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	6.90E+00			YES		8.00E+00			YES		9.50E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	1.83E+02		YES		YES	6.27E+01					1.31E+02	J	YES		
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	9.80E-01	J	YES			8.80E-01	J	YES			1.10E+00		YES		YES
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					ND					ND				
Calcium	mg/kg	1.72E+03	NA	NA	7.27E+03	J	YES			1.27E+03	J				2.94E+03	J	YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.82E+01	J			YES	1.98E+01	J			YES	1.55E+01				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	5.60E+00	J				5.70E+00	J				6.60E+00				
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	2.84E+01		YES			1.33E+01		YES			1.30E+01		YES		
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	2.52E+04	J		YES	YES	3.62E+04	J	YES	YES	YES	2.85E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	2.71E+01	J				2.81E+01	J				3.08E+01	J			
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	1.98E+03	J	YES			9.65E+02	J				6.49E+02				
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	2.76E+02	J			YES	8.66E+02	J		YES	YES	6.45E+02	J		YES	YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	5.40E-02					4.60E-02					3.10E-02	B			
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	1.38E+01	J	YES			9.30E+00	J				8.80E+00				
Potassium	mg/kg	8.00E+02	NA	NA	4.90E+02	J				2.30E+02	J				2.85E+02	J			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	1.60E+00		YES		YES	2.10E+00		YES		YES	1.50E+00		YES		YES
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	1.42E+02	B				9.14E+01	B				1.12E+02	B			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					ND					ND				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	3.10E+01				YES	3.74E+01				YES	3.04E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	7.94E+01	J	YES		YES	3.53E+01	J				3.16E+01	J			
VOLATILE ORGANIC COMPOUNDS																			
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND				
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND				
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					ND					8.40E-02	J			
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	ND					7.90E-03	B				4.60E-02	B			
Benzene	mg/kg	NA	2.17E+01	5.00E-02	ND					ND					ND				
Bromomethane	mg/kg	NA	1.09E+01	NA	ND					ND					ND				
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					ND				
Cumene	mg/kg	NA	7.77E+02	NA	ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	ND					ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	1.90E-03	B				1.90E-03	B				2.00E-03	B			
Naphthalene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					5.20E-03	J			
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					ND					ND				
Trichlorofluoromethane	mg/kg	NA	2.33E+03	1.00E-01	ND					ND					ND				
m,p-Xylenes	mg/kg	NA	1.55E+04	5.00E-02	ND					ND					ND				
n-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND				
n-Propylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND				
p-Chlorotoluene	mg/kg	NA	1.55E+02	1.00E-01	ND					ND					ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					ND					ND				
sec-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND				
tert-Butylbenzene	mg/kg	NA	7.77E+01	NA	ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP73					PPMP-75-GP74					PPMP-75-GP75				
				Sample Number	KJ0152					KJ0154					KJ0156				
				Sample Date	22-Jan-99					22-Jan-99					21-Jan-99				
				Sample Depth (Feet)	0- 1					0- 1					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																			
2,4-Dinitrotoluene	mg/kg	NA	9.27E-01	1.28E+00	ND					ND					ND				
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					ND					4.30E-02	J			
4-Nitroaniline	mg/kg	NA	2.33E+01	3.16E+00	ND					ND					ND				
Acenaphthene	mg/kg	7.02E-01	4.63E+02	2.00E+01	ND					ND					ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	ND					ND					ND				
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	ND					ND					ND				
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	4.20E-02	J				ND					ND				
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	5.70E-02	J				ND					ND				
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	7.90E-02	J				ND					ND				
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	5.90E-02	J				ND					ND				
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	ND					ND					ND				
Butyl benzyl phthalate	mg/kg	NA	1.56E+03	2.40E-01	1.00E-01	J				ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	ND					ND					ND				
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	4.80E-02	J				ND					4.10E-02	J			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	ND					ND					ND				
Dibenzofuran	mg/kg	NA	3.09E+01	NA	ND					ND					ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	8.20E-02	J				ND					ND				
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	ND					ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	5.50E-02	J				ND					ND				
Isophorone	mg/kg	NA	6.54E+02	1.39E+02	ND					ND					ND				
Naphthalene	mg/kg	3.30E-02	1.55E+02	1.00E-01	ND					ND					ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	3.90E-02	J				ND					5.20E-02	J			
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	6.30E-02	J				ND					ND				
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	8.80E-02	J				ND					ND				
HERBICIDES																			
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	1.00E-01	ND					ND					ND				
PESTICIDES																			
4,4'-DDD	mg/kg	NA	2.54E+00	2.50E-03	ND					ND					ND				
4,4'-DDE	mg/kg	NA	1.79E+00	2.50E-03	1.30E-03	J				ND					ND				
4,4'-DDT	mg/kg	NA	1.79E+00	2.50E-03	1.20E-03	J				ND					ND				
Aldrin	mg/kg	NA	3.65E-02	2.50E-03	ND					ND					ND				
Endosulfan sulfate	mg/kg	NA	4.66E+01	3.58E-02	ND					ND					ND				
Endrin	mg/kg	NA	2.32E+00	1.00E-03	ND					ND					ND				
Endrin aldehyde	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND				
Endrin ketone	mg/kg	NA	2.32E-01	1.05E-02	ND					ND					ND				
Heptachlor	mg/kg	NA	1.40E-01	1.00E-01	ND					ND					ND				
Methoxychlor	mg/kg	NA	3.89E+01	1.99E-02	ND					ND					ND				
alpha-BHC	mg/kg	NA	1.00E-01	2.50E-03	ND					ND					ND				
beta-BHC	mg/kg	NA	3.50E-01	1.00E-03	ND					ND					ND				
delta-BHC	mg/kg	NA	2.33E+00	9.94E+00	4.20E-04	J				ND					ND				
PCBs																			
Aroclor 1260	mg/kg	NA	2.93E-01	2.00E-02	ND					ND					ND				

Table 5-1

Surface and Depositional Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods.

[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. For SVOCs, concentration listed is the background screening value for soils adjacent to asphalt 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] Residential 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).

D - Dilution was performed; the result reported is from the dilution.

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

mg/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 5-2

Initial Confirmation Surface Soil Sample Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP05					PPMP-75-GP05					PPMP-75-GP05					PPMP-75-GP05				
				Sample Number	KJ0011R1					KJ0011R2					KJ0011R3					KJ0011R4				
				Sample Date	9-Feb-01					9-Feb-01					9-Feb-01					9-Feb-01				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	1.32E+03	nv	YES	YES	YES	3.50E+01	nv				2.97E+01	nv				9.60E+01	nv			

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP12					PPMP-75-GP12					PPMP-75-GP12					PPMP-75-GP12				
				Sample Number	KJ0027R1					KJ0027R2					KJ0027R3					KJ0027R4				
				Sample Date	9-Feb-01					9-Feb-01					9-Feb-01					9-Feb-01				
				Sample Depth (Feet)	0- 1					0- 1					0- 1					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	1.77E+01	nv				3.78E+02	nv	YES		YES	1.68E+01	nv				1.65E+01	nv			

				Parcel	PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-GP42					PPMP-75-GP42					PPMP-75-GP42				
				Sample Number	KJ0087R2					KJ0087R3					KJ0087R4				
				Sample Date	9-Feb-01					9-Feb-01					9-Feb-01				
				Sample Depth (Feet)	0- 1					0- 1					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
METALS																			
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	1.01E+02	nv				1.85E+02	nv	YES		YES	3.89E+02	nv	YES		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] Residential 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.

mg/kg - Milligrams per kilogram.

Qual - Data validation qualifier.

nv - Not validated.

Table 5-3

Final Confirmation Surface Soil Sample Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Sample Location	PPMP-75-GP05A					PPMP-75-GP05B				
				Parcel	PPMP-75					PPMP-75				
				Sample Number	KJ0011A					KJ0011B				
				Sample Date	11-May-01					11-May-01				
				Sample Depth (Feet)	0- 1					0- 1				
Parameter	Units	BKG[a]	SSSL[b]	ESV[b]	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
METALS														
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	3.41E+01	nv				2.07E+01	nv			

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) 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.

mg/kg - Milligrams per kilogram.

Qual - Data validation qualifier.

nv - Not validated.

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP04				PPMP-75-GP05				PPMP-75-GP06				PPMP-75-GP07				PPMP-75-GP08			
			Sample Number	KJ0010				KJ0012				KJ0014				KJ0016				KJ0018			
			Sample Date	18-Jan-99				18-Jan-99				28-Jan-99				19-Jan-99				19-Jan-99			
			Sample Depth (Feet)	4-6				3 - 4.5				3-6				3-6				5-8			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS																							
Aluminum	mg/kg	1.36E+04	7.80E+03	1.41E+04		YES	YES	1.49E+04		YES	YES	1.38E+04		YES	YES	1.65E+04		YES	YES	7.82E+03			YES
Antimony	mg/kg	1.31E+00	3.11E+00	ND				ND				ND				ND				ND			
Arsenic	mg/kg	1.83E+01	4.26E-01	7.30E+00			YES	4.20E+00			YES	4.20E+00			YES	6.70E+00			YES	9.60E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	5.50E+01				2.94E+02		YES		1.22E+02				1.80E+02				1.01E+02			
Beryllium	mg/kg	8.60E-01	9.60E+00	5.60E-01	J			2.10E+00		YES		1.20E+00		YES		1.60E+00		YES		1.30E+00		YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND				ND				ND				ND			
Calcium	mg/kg	6.37E+02	NA	2.14E+02	J			9.42E+03	J	YES		1.29E+03	J	YES		7.23E+02	J	YES		4.13E+02	J		
Chromium	mg/kg	3.83E+01	2.32E+01	1.87E+01	J			1.95E+01	J			1.63E+01	J			2.54E+01	J		YES	1.43E+01	J		
Cobalt	mg/kg	1.75E+01	4.68E+02	2.70E+00	J			1.81E+01		YES		9.00E+00	J			2.26E+01		YES		2.12E+01		YES	
Copper	mg/kg	1.94E+01	3.13E+02	1.62E+01				2.39E+01		YES		2.96E+01		YES		3.15E+01		YES		1.95E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	3.49E+04			YES	3.07E+04			YES	3.81E+04			YES	4.33E+04			YES	4.55E+04		YES	YES
Lead	mg/kg	3.85E+01	4.00E+02	1.45E+01				4.02E+01		YES		1.28E+01				2.07E+01				6.21E+01		YES	
Magnesium	mg/kg	7.66E+02	NA	9.42E+02	J	YES		5.22E+03	J	YES		4.51E+03		YES		7.20E+03	J	YES		2.44E+03	J	YES	
Manganese	mg/kg	1.36E+03	3.63E+02	1.33E+01				1.70E+02				1.30E+02				2.06E+02				2.33E+03		YES	YES
Mercury	mg/kg	7.00E-02	2.33E+00	5.30E-02	J			4.40E-02	J			5.90E-02				2.80E-02	J			6.60E-02	J		
Nickel	mg/kg	1.29E+01	1.54E+02	5.70E+00				2.72E+01		YES		3.57E+01		YES		4.12E+01		YES		2.26E+01		YES	
Potassium	mg/kg	7.11E+02	NA	4.57E+02	J			5.49E+02	J			4.29E+02	J			4.95E+02	J			2.73E+02	B		
Selenium	mg/kg	4.70E-01	3.91E+01	1.90E+00		YES		1.60E+00		YES		1.90E+00		YES		2.40E+00		YES		2.30E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	2.01E+02	B			1.82E+02	B			1.49E+02	B			1.47E+02	B			5.71E+01	B		
Thallium	mg/kg	1.40E+00	5.08E-01	5.70E-01	J		YES	ND				ND				9.10E-01	J		YES	ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	4.22E+01				2.54E+01				2.51E+01				2.94E+01				3.86E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	2.43E+01				8.58E+01		YES		9.47E+01		YES		1.29E+02		YES		7.46E+01		YES	
VOLATILE ORGANIC COMPOUNDS																							
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	3.80E-03	J			ND				ND				ND				ND			
Acetone	mg/kg	NA	7.76E+02	7.80E-02	B			4.80E-01	J			3.40E-01	J			6.10E-02	B			3.30E-02	B		
Bromomethane	mg/kg	NA	1.09E+01	2.00E-03	B			ND				ND				2.00E-03	B			ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	3.60E-03	B			3.10E-03	B			3.70E-03	B			2.70E-03	B			2.40E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP04				PPMP-75-GP05				PPMP-75-GP06				PPMP-75-GP07				PPMP-75-GP08			
			Sample Number	KJ0010				KJ0012				KJ0014				KJ0016				KJ0018			
			Sample Date	18-Jan-99				18-Jan-99				28-Jan-99				19-Jan-99				19-Jan-99			
			Sample Depth (Feet)	4-6				3 - 4.5				3-6				3-6				5-8			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																							
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Acenaphthene	mg/kg	NA	4.63E+02	ND				1.70E-01	J			ND				ND				ND			
Acenaphthylene	mg/kg	NA	4.63E+02	ND				1.30E-01	J			ND				ND				ND			
Anthracene	mg/kg	NA	2.33E+03	ND				7.30E-01	J			ND				ND				ND			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	ND				1.30E+00			YES	ND				6.20E-02	J			ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	ND				1.30E+00			YES	ND				ND				ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	ND				1.80E+00			YES	ND				6.40E-02	J			ND			
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	ND				7.90E-01	J			ND				ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	ND				6.80E-01	J			ND				ND				ND			
Carbazole	mg/kg	NA	3.11E+01	ND				5.40E-01	J			ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	ND				1.50E+00				ND				6.10E-02	J			ND			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				ND				ND				ND			
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				1.90E-01	J		YES	ND				ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				3.10E-01	J			ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	ND				4.20E+00				ND				1.60E-01	J			ND			
Fluorene	mg/kg	NA	3.09E+02	ND				7.30E-01	J			ND				4.30E-02	J			ND			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	ND				8.80E-01			YES	ND				ND				ND			
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	ND				4.30E+00				ND				1.80E-01	J			ND			
Pyrene	mg/kg	NA	2.33E+02	ND				3.40E+00				ND				1.30E-01	J			ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	7.50E-02	B			ND				ND				9.90E-02	J			5.00E-02	J		
HERBICIDES																							
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	ND				ND				ND				ND				3.10E-01			
PESTICIDES																							
4,4'-DDE	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
Aldrin	mg/kg	NA	3.65E-02	ND				ND				ND				6.20E-04	J			ND			
Endrin	mg/kg	NA	2.32E+00	ND				8.40E-03	J			ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				2.00E-03	J			ND				ND			
Heptachlor	mg/kg	NA	1.40E-01	ND				ND				ND				ND				ND			
Methoxychlor	mg/kg	NA	3.89E+01	ND				ND				ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP09				PPMP-75-GP10				PPMP-75-GP11				PPMP-75-GP12				PPMP-75-GP13			
			Sample Number	KJ0020				KJ0022				KJ0026				KJ0028				KJ0030			
			Sample Date	19-Jan-99				18-Jan-99				21-Jan-99				21-Jan-99				20-Jan-99			
			Sample Depth (Feet)	2-4				2-3				3-5				1-3				10-12			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS																							
Aluminum	mg/kg	1.36E+04	7.80E+03	1.48E+04		YES	YES	1.43E+04		YES	YES	1.46E+04		YES	YES	1.38E+04		YES	YES	1.18E+04			YES
Antimony	mg/kg	1.31E+00	3.11E+00	ND				ND				ND				ND				ND			
Arsenic	mg/kg	1.83E+01	4.26E-01	5.30E+00			YES	5.20E+00			YES	5.30E+00			YES	4.50E+00			YES	9.40E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	7.90E+01				1.88E+02				5.45E+01	J			2.39E+02	J	YES		7.55E+01			
Beryllium	mg/kg	8.60E-01	9.60E+00	1.70E+00		YES		1.60E+00		YES		1.50E+00		YES		1.10E+00		YES		8.20E-01	J		
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND				ND				ND				4.90E-01	J	YES	
Calcium	mg/kg	6.37E+02	NA	2.39E+03	J	YES		6.83E+03	J	YES		7.02E+02	J	YES		1.81E+03	J	YES		2.86E+03	J	YES	
Chromium	mg/kg	3.83E+01	2.32E+01	2.00E+01	J			2.06E+01	J			1.98E+01				1.82E+01				1.45E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	1.31E+01				3.55E+01		YES		2.86E+01		YES		5.70E+00				1.68E+01			
Copper	mg/kg	1.94E+01	3.13E+02	4.01E+01		YES		4.16E+01		YES		4.29E+01		YES		3.69E+01		YES		6.85E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	3.45E+04			YES	3.34E+04			YES	3.25E+04			YES	2.92E+04			YES	3.32E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.81E+01				1.85E+01				1.82E+01	J			3.45E+01	J			2.50E+01			
Magnesium	mg/kg	7.66E+02	NA	8.62E+03	J	YES		1.04E+04	J	YES		6.69E+03		YES		4.84E+03		YES		7.80E+03	J	YES	
Manganese	mg/kg	1.36E+03	3.63E+02	1.34E+02				1.68E+02				1.62E+02	J			7.70E+01	J			5.07E+02	J		YES
Mercury	mg/kg	7.00E-02	2.33E+00	2.60E-02	J			3.00E-02	J			1.20E-01		YES		5.20E-02	B			4.50E-02			
Nickel	mg/kg	1.29E+01	1.54E+02	5.75E+01		YES		4.65E+01		YES		6.44E+01		YES		3.75E+01		YES		5.33E+01		YES	
Potassium	mg/kg	7.11E+02	NA	4.28E+02	J			3.46E+02	J			4.32E+02	J			5.40E+02	J			4.79E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	2.20E+00		YES		1.80E+00		YES		1.80E+00		YES		1.60E+00		YES		1.60E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	1.67E+02	B			2.24E+02	B			1.61E+02	B			1.08E+02	B			1.45E+02	B		
Thallium	mg/kg	1.40E+00	5.08E-01	4.90E-01	J			4.60E-01	J			ND				ND				4.40E-01	J		
Vanadium	mg/kg	6.49E+01	5.31E+01	2.36E+01				2.17E+01				2.38E+01				2.11E+01				2.63E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	1.14E+02		YES		1.14E+02		YES		1.18E+02	J	YES		9.50E+01	J	YES		1.37E+02	J	YES	
VOLATILE ORGANIC COMPOUNDS																							
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				ND				ND				ND			
Acetone	mg/kg	NA	7.76E+02	1.90E-01	J			2.70E-02	B			7.60E-02	B			3.10E-02	B			9.00E-02	B		
Bromomethane	mg/kg	NA	1.09E+01	2.20E-03	B			1.80E-03	B			1.60E-03	B			2.20E-03	B			2.40E-03	B		
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	3.30E-03	B			3.10E-03	B			2.30E-03	B			3.20E-03	B			3.50E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				1.70E-03	J			ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP09				PPMP-75-GP10				PPMP-75-GP11				PPMP-75-GP12				PPMP-75-GP13			
			Sample Number	KJ0020				KJ0022				KJ0026				KJ0028				KJ0030			
			Sample Date	19-Jan-99				18-Jan-99				21-Jan-99				21-Jan-99				20-Jan-99			
			Sample Depth (Feet)	2-4				2-3				3-5				1-3				10-12			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																							
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Acenaphthene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Acenaphthylene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Anthracene	mg/kg	NA	2.33E+03	4.40E-02	J			ND				ND				ND				ND			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	2.30E-01	J			ND				ND				ND				ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	2.10E-01	J		YES	ND				ND				ND				ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	3.50E-01	J			ND				ND				5.30E-02	J			ND			
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	1.40E-01	J			ND				ND				ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	1.20E-01	J			ND				ND				ND				ND			
Carbazole	mg/kg	NA	3.11E+01	ND				ND				ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	2.40E-01	J			ND				ND				4.00E-02	J			ND			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				ND				ND				ND			
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				ND				ND				ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				ND				ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	5.30E-01				ND				ND				5.30E-02	J			ND			
Fluorene	mg/kg	NA	3.09E+02	ND				ND				ND				ND				ND			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	1.50E-01	J			ND				ND				ND				ND			
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	1.50E-01	J			ND				ND				ND				ND			
Pyrene	mg/kg	NA	2.33E+02	5.10E-01				ND				ND				3.80E-02	J			ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	4.80E-02	J			4.90E-02	B			ND				ND				ND			
HERBICIDES																							
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	2.00E-01				1.60E-01				ND				ND				ND			
PESTICIDES																							
4,4'-DDE	mg/kg	NA	1.79E+00	ND				ND				4.60E-03	J			ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				2.20E-03	J			4.20E-03	J			ND			
Aldrin	mg/kg	NA	3.65E-02	2.10E-03	J			ND				ND				ND				ND			
Endrin	mg/kg	NA	2.32E+00	1.80E-03	J			ND				ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				ND				ND				ND			
Heptachlor	mg/kg	NA	1.40E-01	8.00E-04	J			8.20E-04	J			ND				ND				ND			
Methoxychlor	mg/kg	NA	3.89E+01	2.30E-03	J			ND				ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP14				PPMP-75-GP15				PPMP-75-GP16				PPMP-75-GP17				PPMP-75-GP18			
			Sample Number	KJ0031				KJ0032				KJ0033				KJ0034				KJ0035			
			Sample Date	20-Jan-99				20-Jan-99				20-Jan-99				20-Jan-99				20-Jan-99			
			Sample Depth (Feet)	5-7				3-6				3-6				5-7				6-8			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS																							
Aluminum	mg/kg	1.36E+04	7.80E+03	1.44E+04		YES	YES	1.16E+04			YES	1.64E+04		YES	YES	1.19E+04			YES	1.52E+04		YES	YES
Antimony	mg/kg	1.31E+00	3.11E+00	ND				ND				ND				ND				ND			
Arsenic	mg/kg	1.83E+01	4.26E-01	3.10E+00			YES	6.90E+00			YES	4.70E+00			YES	1.80E+00			YES	3.60E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	2.00E+02				8.63E+01				1.65E+02				1.63E+02				3.78E+02		YES	
Beryllium	mg/kg	8.60E-01	9.60E+00	1.60E+00	J	YES		8.50E-01	J			1.00E+00	J	YES		8.00E-01	J			1.40E+00	J	YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND				ND				ND				ND			
Calcium	mg/kg	6.37E+02	NA	1.84E+03	J	YES		6.18E+02	J			7.88E+02	J	YES		7.48E+02	J	YES		1.53E+03	J	YES	
Chromium	mg/kg	3.83E+01	2.32E+01	1.83E+01				2.49E+01			YES	2.02E+01				1.45E+01				1.96E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	9.70E+00				3.10E+00	J			5.90E+00	J			6.70E+00				2.05E+01		YES	
Copper	mg/kg	1.94E+01	3.13E+02	2.05E+01		YES		1.73E+01				2.39E+01		YES		1.32E+01				2.38E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	3.16E+04			YES	4.41E+04			YES	3.52E+04			YES	1.89E+04			YES	3.97E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.65E+01				1.71E+01				1.82E+01				1.41E+01				1.97E+01			
Magnesium	mg/kg	7.66E+02	NA	5.06E+03	J	YES		9.21E+02	J	YES		2.95E+03	J	YES		2.00E+03	J	YES		3.70E+03	J	YES	
Manganese	mg/kg	1.36E+03	3.63E+02	9.02E+01	J			2.50E+01	J			4.48E+01	J			8.13E+01	J			3.50E+02	J		
Mercury	mg/kg	7.00E-02	2.33E+00	3.30E-02	J			5.10E-01		YES		5.10E-02				1.20E-02	J			5.50E-01		YES	
Nickel	mg/kg	1.29E+01	1.54E+02	3.15E+01		YES		7.40E+00				1.93E+01		YES		1.36E+01		YES		3.07E+01		YES	
Potassium	mg/kg	7.11E+02	NA	4.88E+02	J			3.15E+02	J			4.10E+02	J			4.38E+02	J			4.65E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	1.70E+00		YES		2.70E+00		YES		1.60E+00		YES		1.10E+00		YES		1.90E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	2.13E+02	B			1.40E+02	B			1.79E+02	B			1.41E+02	B			1.71E+02	B		
Thallium	mg/kg	1.40E+00	5.08E-01	5.50E-01	J		YES	ND				5.90E-01	J		YES	ND				5.70E-01	J		YES
Vanadium	mg/kg	6.49E+01	5.31E+01	2.81E+01				3.45E+01				3.35E+01				1.69E+01				2.64E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	6.85E+01	J	YES		2.86E+01	J			8.45E+01	J	YES		3.29E+01	J			6.25E+01	J	YES	
VOLATILE ORGANIC COMPOUNDS																							
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				ND				ND				ND			
Acetone	mg/kg	NA	7.76E+02	2.90E-01	J			3.90E-02	B			3.70E-02	B			1.10E-01	B			1.50E+00	J		
Bromomethane	mg/kg	NA	1.09E+01	1.70E-03	B			1.90E-03	B			1.90E-03	B			2.30E-03	B			1.80E-03	B		
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	2.60E-03	B			3.30E-03	B			3.60E-03	B			3.40E-03	B			3.70E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP14				PPMP-75-GP15				PPMP-75-GP16				PPMP-75-GP17				PPMP-75-GP18			
			Sample Number	KJ0031				KJ0032				KJ0033				KJ0034				KJ0035			
			Sample Date	20-Jan-99				20-Jan-99				20-Jan-99				20-Jan-99				20-Jan-99			
			Sample Depth (Feet)	5-7				3-6				3-6				5-7				6-8			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																							
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Acenaphthene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Acenaphthylene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Anthracene	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	ND				ND				4.80E-02	J			ND				ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	ND				ND				5.60E-02	J			ND				ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	ND				ND				7.60E-02	J			ND				ND			
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	ND				ND				ND				ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	ND				ND				ND				ND				ND			
Carbazole	mg/kg	NA	3.11E+01	ND				ND				ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	ND				ND				5.20E-02	J			ND				ND			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				ND				ND				ND			
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				ND				ND				ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				ND				ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	ND				ND				1.10E-01	J			ND				ND			
Fluorene	mg/kg	NA	3.09E+02	ND				ND				ND				ND				ND			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	ND				ND				ND				ND				ND			
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	ND				ND				ND				ND				ND			
Pyrene	mg/kg	NA	2.33E+02	ND				ND				9.50E-02	J			ND				ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	ND				ND				ND				ND				ND			
HERBICIDES																							
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	ND				ND				ND				ND				ND			
PESTICIDES																							
4,4'-DDE	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
Aldrin	mg/kg	NA	3.65E-02	ND				ND				ND				ND				ND			
Endrin	mg/kg	NA	2.32E+00	ND				ND				ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				ND				ND				ND			
Heptachlor	mg/kg	NA	1.40E-01	ND				6.50E-04	J			ND				ND				ND			
Methoxychlor	mg/kg	NA	3.89E+01	ND				ND				ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP19				PPMP-75-GP20				PPMP-75-GP21				PPMP-75-GP22				PPMP-75-GP23			
			Sample Number	KJ0036				KJ0038				KJ0040				KJ0042				KJ0046			
			Sample Date	20-Jan-99				20-Jan-99				20-Jan-99				20-Jan-99				20-Jan-99			
			Sample Depth (Feet)	0 - 3				6-9				8.5- 10.5				3-6				3-6			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS																							
Aluminum	mg/kg	1.36E+04	7.80E+03	6.17E+03				1.43E+04		YES	YES	1.45E+04		YES	YES	1.30E+04			YES	1.28E+04			YES
Antimony	mg/kg	1.31E+00	3.11E+00	ND				ND				ND				ND				ND			
Arsenic	mg/kg	1.83E+01	4.26E-01	3.20E+00			YES	3.80E+00			YES	3.30E+00			YES	3.50E+00			YES	4.30E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	5.34E+01				3.38E+02		YES		1.02E+02				1.23E+02				1.19E+02	J		
Beryllium	mg/kg	8.60E-01	9.60E+00	7.40E-01	J			1.60E+00	J	YES		1.00E+00	J	YES		2.80E+00	J	YES		2.40E+00	J	YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND				ND				ND				ND			
Calcium	mg/kg	6.37E+02	NA	6.49E+03	J	YES		8.25E+02	J	YES		1.12E+03	J	YES		1.32E+03	J	YES		2.40E+03	J	YES	
Chromium	mg/kg	3.83E+01	2.32E+01	1.18E+01				1.88E+01				1.94E+01				1.75E+01				1.57E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	2.90E+00	J			1.41E+02		YES		1.31E+01				5.22E+01		YES		1.37E+01			
Copper	mg/kg	1.94E+01	3.13E+02	7.40E+00				3.33E+01		YES		3.19E+01		YES		2.89E+01		YES		2.23E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	2.21E+04			YES	3.43E+04			YES	3.61E+04			YES	3.25E+04			YES	3.74E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	2.14E+01				1.81E+01				1.32E+01				2.17E+01				2.52E+01	J		
Magnesium	mg/kg	7.66E+02	NA	1.89E+03	J	YES		6.34E+03	J	YES		7.07E+03	J	YES		5.39E+03	J	YES		2.30E+03	J	YES	
Manganese	mg/kg	1.36E+03	3.63E+02	1.22E+02	J			4.00E+03	J	YES	YES	2.03E+02	J			4.61E+02	J		YES	1.04E+02	J		
Mercury	mg/kg	7.00E-02	2.33E+00	1.80E-02	J			3.90E-02				8.00E-02		YES		4.40E-02				5.90E-02			
Nickel	mg/kg	1.29E+01	1.54E+02	4.40E+00	J			9.45E+01		YES		5.43E+01		YES		6.45E+01		YES		1.99E+01		YES	
Potassium	mg/kg	7.11E+02	NA	2.29E+02	J			3.70E+02	J			3.94E+02	J			2.54E+02	J			4.32E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	1.30E+00		YES		2.00E+00		YES		1.00E+00		YES		1.20E+00		YES		2.20E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	1.28E+02	B			2.89E+02	J			1.47E+02	B			1.37E+02	B			3.08E+02	J		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				ND				ND				ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	2.09E+01				2.09E+01				2.06E+01				2.01E+01				2.60E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	7.70E+01	J	YES		1.38E+02	J	YES		1.13E+02	J	YES		1.46E+02	J	YES		6.25E+01	J	YES	
VOLATILE ORGANIC COMPOUNDS																							
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				ND				ND				4.80E-03	J		
Acetone	mg/kg	NA	7.76E+02	6.70E-02	B			3.70E-01	J			3.10E-02	B			1.20E-01	J			2.30E-01	J		
Bromomethane	mg/kg	NA	1.09E+01	1.70E-03	B			2.20E-03	B			2.00E-03	B			ND				1.70E-03	J		
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	3.00E-03	B			5.50E-03	B			8.50E-03	B			2.50E-03	B			2.80E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				6.90E-03	J		
Toluene	mg/kg	NA	1.55E+03	1.50E-02				ND				ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP19				PPMP-75-GP20				PPMP-75-GP21				PPMP-75-GP22				PPMP-75-GP23			
			Sample Number	KJ0036				KJ0038				KJ0040				KJ0042				KJ0046			
			Sample Date	20-Jan-99				20-Jan-99				20-Jan-99				20-Jan-99				20-Jan-99			
			Sample Depth (Feet)	0 - 3				6-9				8.5- 10.5				3-6				3-6			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																							
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				4.30E-02	J		
Acenaphthene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				5.30E-02	J		
Acenaphthylene	mg/kg	NA	4.63E+02	5.70E-02	J			ND				ND				ND				ND			
Anthracene	mg/kg	NA	2.33E+03	ND				ND				ND				ND				4.20E-02	J		
Benzo(a)anthracene	mg/kg	NA	8.51E-01	2.20E-01	J			ND				ND				ND				8.60E-02	J		
Benzo(a)pyrene	mg/kg	NA	8.51E-02	3.30E-01	J		YES	ND				ND				ND				7.50E-02	J		
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	4.80E-01				ND				ND				ND				8.60E-02	J		
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	1.80E-01	J			ND				ND				ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	1.90E-01	J			ND				ND				ND				ND			
Carbazole	mg/kg	NA	3.11E+01	ND				ND				ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	2.60E-01	J			ND				ND				ND				8.60E-02	J		
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				ND				ND				ND			
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				ND				ND				ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				ND				ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	3.30E-01	J			ND				ND				ND				2.10E-01	J		
Fluorene	mg/kg	NA	3.09E+02	ND				ND				ND				ND				7.50E-02	J		
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	2.10E-01	J			ND				ND				ND				ND			
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				6.30E-02	J		
Phenanthrene	mg/kg	NA	2.32E+03	7.10E-02	J			ND				ND				ND				2.10E-01	J		
Pyrene	mg/kg	NA	2.33E+02	3.90E-01				ND				ND				ND				1.70E-01	J		
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	ND				ND				ND				ND				ND			
HERBICIDES																							
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	ND				ND				ND				ND				ND			
PESTICIDES																							
4,4'-DDE	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
Aldrin	mg/kg	NA	3.65E-02	ND				ND				ND				ND				ND			
Endrin	mg/kg	NA	2.32E+00	ND				ND				ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				ND				ND				ND			
Heptachlor	mg/kg	NA	1.40E-01	1.20E-03	J			ND				7.00E-04	J			7.90E-04	J			ND			
Methoxychlor	mg/kg	NA	3.89E+01	ND				ND				ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	6.70E-04	J			6.70E-04	J			ND				4.60E-04	J			ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP24				PPMP-75-GP25				PPMP-75-GP25				PPMP-75-GP26				PPMP-75-GP27			
			Sample Number	KJ0048				KJ0050				KJ0157				KJ0052				KJ0054			
			Sample Date	21-Jan-99				20-Jan-99				20-Jan-99				21-Jan-99				21-Jan-99			
			Sample Depth (Feet)	5-7				10-12				15 - 17				6-9				9-12			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS																							
Aluminum	mg/kg	1.36E+04	7.80E+03	1.27E+04			YES	1.49E+04		YES	YES	1.52E+04		YES	YES	1.14E+04			YES	1.26E+04			YES
Antimony	mg/kg	1.31E+00	3.11E+00	ND				ND				ND				ND				ND			
Arsenic	mg/kg	1.83E+01	4.26E-01	5.10E+00			YES	3.90E+00			YES	4.20E+00			YES	4.40E+00			YES	3.30E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	1.66E+02	J			1.36E+02				1.21E+02				1.46E+02	J			1.75E+02	J		
Beryllium	mg/kg	8.60E-01	9.60E+00	1.60E+00		YES		1.10E+00	J	YES		1.00E+00	J	YES		1.10E+00		YES		8.90E-01		YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND				ND				ND				ND			
Calcium	mg/kg	6.37E+02	NA	3.81E+03	J	YES		1.84E+03	J	YES		1.61E+03	J	YES		1.36E+03	J	YES		5.23E+03	J	YES	
Chromium	mg/kg	3.83E+01	2.32E+01	1.83E+01				2.20E+01				2.23E+01				1.75E+01				1.93E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	2.12E+01		YES		2.57E+01		YES		1.36E+01				2.43E+01		YES		9.20E+00			
Copper	mg/kg	1.94E+01	3.13E+02	2.90E+01		YES		3.62E+01		YES		3.91E+01		YES		2.24E+01		YES		2.00E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	4.40E+04			YES	3.62E+04			YES	3.57E+04			YES	3.20E+04			YES	2.35E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	2.20E+01	J			2.08E+01				1.65E+01				1.37E+01	J			1.19E+01	J		
Magnesium	mg/kg	7.66E+02	NA	3.23E+03		YES		6.98E+03	J	YES		7.73E+03	J	YES		2.33E+03		YES		3.19E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	1.17E+02	J			6.08E+02	J		YES	2.23E+02	J			2.38E+02	J			8.99E+01	J		
Mercury	mg/kg	7.00E-02	2.33E+00	3.50E-02	B			4.00E-02				7.20E-02		YES		ND				3.90E-02	B		
Nickel	mg/kg	1.29E+01	1.54E+02	2.83E+01		YES		4.96E+01		YES		4.80E+01		YES		2.34E+01		YES		3.02E+01		YES	
Potassium	mg/kg	7.11E+02	NA	4.73E+02	J			6.71E+02				6.44E+02				4.50E+02	J			4.96E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	2.30E+00		YES		1.40E+00		YES		1.50E+00		YES		1.50E+00		YES		8.80E-01		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	3.54E+02	J			2.19E+02	B			1.56E+02	B			1.38E+02	B			1.36E+02	B		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				ND				ND				ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	2.91E+01				2.27E+01				1.99E+01				2.58E+01				2.21E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	7.53E+01	J	YES		1.41E+02	J	YES		1.40E+02	J	YES		5.03E+01	J	YES		5.90E+01	J	YES	
VOLATILE ORGANIC COMPOUNDS																							
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				2.30E-03	J			ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				2.20E-02	R			ND				ND			
Acetone	mg/kg	NA	7.76E+02	1.20E-02	B			3.40E-02	B			1.10E+00	R			3.70E-02	B			ND			
Bromomethane	mg/kg	NA	1.09E+01	1.80E-03	B			ND				ND				1.70E-03	B			ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	2.20E-03	B			5.70E-03	B			7.30E-03	B			2.40E-03	B			1.80E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				2.80E-03	J			ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP24				PPMP-75-GP25				PPMP-75-GP25				PPMP-75-GP26				PPMP-75-GP27			
			Sample Number	KJ0048				KJ0050				KJ0157				KJ0052				KJ0054			
			Sample Date	21-Jan-99				20-Jan-99				20-Jan-99				21-Jan-99				21-Jan-99			
			Sample Depth (Feet)	5-7				10-12				15 - 17				6-9				9-12			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																							
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Acenaphthene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Acenaphthylene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Anthracene	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	ND				ND				ND				ND				ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	ND				ND				ND				ND				ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	ND				ND				ND				ND				ND			
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	ND				ND				ND				ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	ND				ND				ND				ND				ND			
Carbazole	mg/kg	NA	3.11E+01	ND				ND				ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	ND				ND				ND				ND				ND			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				ND				ND				ND			
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				ND				ND				ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				ND				ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	ND				ND				ND				ND				ND			
Fluorene	mg/kg	NA	3.09E+02	ND				ND				ND				ND				ND			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	ND				ND				ND				ND				ND			
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	ND				ND				ND				ND				ND			
Pyrene	mg/kg	NA	2.33E+02	ND				ND				ND				ND				ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	ND				6.10E-02	J			ND				ND				ND			
HERBICIDES																							
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	ND				ND				ND				ND				ND			
PESTICIDES																							
4,4'-DDE	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND				1.70E-03	J			ND			
Aldrin	mg/kg	NA	3.65E-02	ND				ND				ND				ND				ND			
Endrin	mg/kg	NA	2.32E+00	ND				ND				ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				ND				ND				2.00E-03	J		
Heptachlor	mg/kg	NA	1.40E-01	ND				ND				ND				ND				ND			
Methoxychlor	mg/kg	NA	3.89E+01	ND				ND				ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP28				PPMP-75-GP29				PPMP-75-GP30			
			Sample Number	KJ0056				KJ0058				KJ0060			
			Sample Date	21-Jan-99				21-Jan-99				21-Jan-99			
			Sample Depth (Feet)	2-5				3-5				6-8			
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	1.21E+04			YES	1.72E+04		YES	YES	1.07E+04			YES
Antimony	mg/kg	1.31E+00	3.11E+00	ND				ND				ND			
Arsenic	mg/kg	1.83E+01	4.26E-01	4.00E+00			YES	5.70E+00			YES	3.30E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	6.72E+01	J			9.48E+01	J			1.01E+02	J		
Beryllium	mg/kg	8.60E-01	9.60E+00	1.30E+00		YES		1.80E+00		YES		1.40E+00		YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND				ND			
Calcium	mg/kg	6.37E+02	NA	1.02E+03	J	YES		1.07E+03	J	YES		8.41E+02	J	YES	
Chromium	mg/kg	3.83E+01	2.32E+01	1.55E+01				2.16E+01				1.34E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	9.80E+00				8.50E+00				2.59E+01		YES	
Copper	mg/kg	1.94E+01	3.13E+02	2.21E+01		YES		5.07E+01		YES		2.36E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	2.53E+04			YES	3.95E+04			YES	2.34E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.48E+01	J			2.35E+01	J			1.41E+01	J		
Magnesium	mg/kg	7.66E+02	NA	2.99E+03		YES		6.48E+03		YES		3.67E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	7.47E+01	J			6.62E+01	J			1.73E+02	J		
Mercury	mg/kg	7.00E-02	2.33E+00	3.50E-02	B			1.50E-02	B			2.90E-02	B		
Nickel	mg/kg	1.29E+01	1.54E+02	2.20E+01		YES		4.68E+01		YES		2.65E+01		YES	
Potassium	mg/kg	7.11E+02	NA	3.83E+02	J			3.74E+02	J			3.72E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	1.50E+00		YES		2.30E+00		YES		9.30E-01		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	1.52E+02	B			1.50E+02	B			2.40E+02	B		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	2.26E+01				2.75E+01				1.88E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	6.20E+01	J	YES		1.07E+02	J	YES		6.71E+01	J	YES	
VOLATILE ORGANIC COMPOUNDS															
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				ND			
Acetone	mg/kg	NA	7.76E+02	8.30E-02	B			2.90E-01	J			3.10E-01	J		
Bromomethane	mg/kg	NA	1.09E+01	1.70E-03	B			ND				ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	2.50E-03	B			1.70E-03	B			2.10E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				ND				ND			
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP28				PPMP-75-GP29				PPMP-75-GP30			
			Sample Number	KJ0056				KJ0058				KJ0060			
			Sample Date	21-Jan-99				21-Jan-99				21-Jan-99			
			Sample Depth (Feet)	2-5				3-5				6-8			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS															
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				ND				ND			
Acenaphthene	mg/kg	NA	4.63E+02	ND				ND				ND			
Acenaphthylene	mg/kg	NA	4.63E+02	ND				ND				ND			
Anthracene	mg/kg	NA	2.33E+03	ND				ND				ND			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	ND				ND				ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	ND				ND				ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	ND				ND				ND			
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	ND				ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	ND				ND				ND			
Carbazole	mg/kg	NA	3.11E+01	ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	ND				ND				ND			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				ND			
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	ND				ND				ND			
Fluorene	mg/kg	NA	3.09E+02	ND				ND				ND			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	ND				ND				ND			
Naphthalene	mg/kg	NA	1.55E+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	ND				ND				ND			
HERBICIDES															
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	ND				ND				ND			
PESTICIDES															
4,4'-DDE	mg/kg	NA	1.79E+00	ND				ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND			
Aldrin	mg/kg	NA	3.65E-02	ND				ND				ND			
Endrin	mg/kg	NA	2.32E+00	ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				ND			
Heptachlor	mg/kg	NA	1.40E-01	ND				ND				ND			
Methoxychlor	mg/kg	NA	3.89E+01	ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP31				PPMP-75-GP32				PPMP-75-GP33			
			Sample Number	KJ0062				KJ0064				KJ0066			
			Sample Date	27-Jan-99				27-Jan-99				27-Jan-99			
			Sample Depth (Feet)	1-3				1-3				1-2			
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	1.54E+04		YES	YES	1.43E+04		YES	YES	1.33E+04			YES
Antimony	mg/kg	1.31E+00	3.11E+00	ND				ND				ND			
Arsenic	mg/kg	1.83E+01	4.26E-01	9.80E+00	J		YES	8.50E+00	J		YES	7.50E+00	J		YES
Barium	mg/kg	2.34E+02	5.47E+02	1.08E+02				9.28E+01				9.81E+01			
Beryllium	mg/kg	8.60E-01	9.60E+00	1.20E+00	J	YES		1.20E+00	J	YES		1.10E+00	J	YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND				ND			
Calcium	mg/kg	6.37E+02	NA	3.94E+03		YES		7.58E+03		YES		2.36E+03		YES	
Chromium	mg/kg	3.83E+01	2.32E+01	2.03E+01				1.76E+01				1.90E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	1.37E+01				1.24E+01				1.83E+01		YES	
Copper	mg/kg	1.94E+01	3.13E+02	4.36E+01	J	YES		4.16E+01	J	YES		4.16E+01	J	YES	
Iron	mg/kg	4.48E+04	2.34E+03	3.50E+04			YES	2.87E+04			YES	3.49E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	2.45E+01				2.17E+01				2.03E+01			
Magnesium	mg/kg	7.66E+02	NA	6.96E+03		YES		5.58E+03		YES		6.01E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	2.87E+02	J			2.06E+02	J			4.36E+02	J		YES
Mercury	mg/kg	7.00E-02	2.33E+00	4.20E-02				4.30E-02				2.70E-02	J		
Nickel	mg/kg	1.29E+01	1.54E+02	4.36E+01		YES		3.34E+01		YES		4.37E+01		YES	
Potassium	mg/kg	7.11E+02	NA	5.45E+02	J			9.20E+02		YES		4.80E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	1.70E+00		YES		1.50E+00		YES		1.90E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	1.52E+02	B			1.36E+02	B			1.16E+02	B		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				4.20E-01	B			ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	2.68E+01				2.21E+01				2.55E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	1.13E+02		YES		1.04E+02		YES		1.38E+02		YES	
VOLATILE ORGANIC COMPOUNDS															
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				ND			
Acetone	mg/kg	NA	7.76E+02	2.30E-01	J			8.90E-02	J			1.90E-02	J		
Bromomethane	mg/kg	NA	1.09E+01	ND				ND				ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	3.70E-03	B			3.70E-03	B			3.30E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				ND				2.90E-03	J		
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP31				PPMP-75-GP32				PPMP-75-GP33			
			Sample Number	KJ0062				KJ0064				KJ0066			
			Sample Date	27-Jan-99				27-Jan-99				27-Jan-99			
			Sample Depth (Feet)	1-3				1-3				1-2			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS															
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				ND				ND			
Acenaphthene	mg/kg	NA	4.63E+02	ND				ND				ND			
Acenaphthylene	mg/kg	NA	4.63E+02	ND				ND				ND			
Anthracene	mg/kg	NA	2.33E+03	ND				ND				ND			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	ND				3.70E-02	J			ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	3.50E-02	J			4.30E-02	J			ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	4.60E-02	J			6.50E-02	J			ND			
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	ND				ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	ND				5.30E-02	J			ND			
Carbazole	mg/kg	NA	3.11E+01	ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	4.60E-02	J			5.30E-02	J			ND			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				3.90E-02	J		
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	4.00E-02	J			ND				ND			
Fluorene	mg/kg	NA	3.09E+02	ND				ND				ND			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	ND				ND				ND			
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	ND				ND				ND			
Pyrene	mg/kg	NA	2.33E+02	4.40E-02	J			4.10E-02	J			ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	5.60E-02	J			5.50E-02	J			7.20E-02	J		
HERBICIDES															
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	ND				ND				ND			
PESTICIDES															
4,4'-DDE	mg/kg	NA	1.79E+00	ND				ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND			
Aldrin	mg/kg	NA	3.65E-02	ND				ND				ND			
Endrin	mg/kg	NA	2.32E+00	ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				ND			
Heptachlor	mg/kg	NA	1.40E-01	ND				ND				ND			
Methoxychlor	mg/kg	NA	3.89E+01	ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP34				PPMP-75-GP35				PPMP-75-GP36				PPMP-75-GP37				PPMP-75-GP38			
			Sample Number	KJ0068				KJ0072				KJ0074				KJ0077				KJ0079			
			Sample Date	27-Jan-99				27-Jan-99				27-Jan-99				27-Jan-99				27-Jan-99			
			Sample Depth (Feet)	1-3				1-3				1-3				1-3				1-4			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS																							
Aluminum	mg/kg	1.36E+04	7.80E+03	1.35E+04			YES	1.59E+04		YES	YES	1.42E+04		YES	YES	1.46E+04		YES	YES	1.40E+04		YES	YES
Antimony	mg/kg	1.31E+00	3.11E+00	ND				ND				ND				ND				ND			
Arsenic	mg/kg	1.83E+01	4.26E-01	1.48E+01	J		YES	9.10E+00	J		YES	8.50E+00	J		YES	2.09E+01	J	YES	YES	9.70E+00	J		YES
Barium	mg/kg	2.34E+02	5.47E+02	1.53E+02				1.14E+02				6.81E+01				7.05E+01				1.52E+02			
Beryllium	mg/kg	8.60E-01	9.60E+00	2.10E+00	J	YES		1.40E+00	J	YES		1.10E+00	J	YES		8.90E-01	J	YES		1.80E+00	J	YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND				ND				ND				ND			
Calcium	mg/kg	6.37E+02	NA	1.20E+03		YES		4.37E+02	J			7.33E+02		YES		1.25E+03		YES		4.13E+02	J		
Chromium	mg/kg	3.83E+01	2.32E+01	1.85E+01				2.12E+01				2.05E+01				2.14E+01				1.88E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	3.48E+01		YES		1.02E+01				2.19E+01		YES		5.60E+00	J			4.99E+01		YES	
Copper	mg/kg	1.94E+01	3.13E+02	4.76E+01	J	YES		4.13E+01	J	YES		4.66E+01	J	YES		3.74E+01	J	YES		4.21E+01	J	YES	
Iron	mg/kg	4.48E+04	2.34E+03	3.31E+04			YES	3.63E+04			YES	3.39E+04			YES	3.41E+04			YES	3.33E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	2.43E+01				2.08E+01				1.78E+01				2.02E+01				1.94E+01			
Magnesium	mg/kg	7.66E+02	NA	5.61E+03		YES		6.19E+03		YES		4.86E+03		YES		3.75E+03		YES		6.43E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	1.56E+02	J			8.34E+01	J			1.71E+02	J			8.84E+01	J			2.54E+02	J		
Mercury	mg/kg	7.00E-02	2.33E+00	1.80E-02	J			1.60E-02	J			4.00E-02				3.10E-02	J			1.40E-02	J		
Nickel	mg/kg	1.29E+01	1.54E+02	6.81E+01		YES		4.28E+01		YES		4.91E+01		YES		1.92E+01		YES		6.37E+01		YES	
Potassium	mg/kg	7.11E+02	NA	3.61E+02	J			4.07E+02	J			4.62E+02	J			5.10E+02	J			3.26E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	2.10E+00		YES		1.80E+00		YES		1.80E+00		YES		2.30E+00		YES		1.80E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	9.86E+01	B			9.94E+01	B			7.25E+01	B			1.26E+02	B			1.28E+02	B		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				ND				5.90E-01	B		YES	4.30E-01	B		
Vanadium	mg/kg	6.49E+01	5.31E+01	2.24E+01				2.37E+01				2.34E+01				3.12E+01				2.36E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	1.01E+02		YES		1.14E+02		YES		1.01E+02		YES		8.36E+01		YES		1.12E+02		YES	
VOLATILE ORGANIC COMPOUNDS																							
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				ND				ND				ND			
Acetone	mg/kg	NA	7.76E+02	3.20E-02	J			2.40E-02	J			3.40E-02	J			2.60E-02	J			1.20E-01	J		
Bromomethane	mg/kg	NA	1.09E+01	ND				ND				ND				ND				ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	4.90E-03	B			4.10E-03	B			3.10E-03	B			3.40E-03	B			3.30E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	3.70E-03	J			3.50E-03	J			ND				3.60E-03	J			3.10E-03	J		
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP34				PPMP-75-GP35				PPMP-75-GP36				PPMP-75-GP37				PPMP-75-GP38			
			Sample Number	KJ0068				KJ0072				KJ0074				KJ0077				KJ0079			
			Sample Date	27-Jan-99				27-Jan-99				27-Jan-99				27-Jan-99				27-Jan-99			
			Sample Depth (Feet)	1-3				1-3				1-3				1-3				1-4			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																							
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Acenaphthene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Acenaphthylene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Anthracene	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	ND				ND				ND				4.30E-02	J			ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	ND				ND				ND				8.70E-02	J		YES	ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	ND				ND				ND				1.10E-01	J			ND			
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	ND				ND				ND				6.60E-02	J			ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	ND				ND				ND				9.00E-02	J			ND			
Carbazole	mg/kg	NA	3.11E+01	ND				ND				ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	ND				ND				ND				8.40E-02	J			ND			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	5.30E-02	J			ND				4.70E-02	J			ND				4.50E-02	J		
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				ND				ND				ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				ND				ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	ND				ND				ND				ND				ND			
Fluorene	mg/kg	NA	3.09E+02	ND				ND				ND				ND				ND			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	ND				ND				ND				6.40E-02	J			ND			
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	ND				ND				ND				ND				ND			
Pyrene	mg/kg	NA	2.33E+02	ND				ND				ND				ND				ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	1.20E-01	J			6.00E-02	J			1.20E-01	J			7.90E-02	J			9.70E-02	J		
HERBICIDES																							
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	ND				ND				ND				ND				ND			
PESTICIDES																							
4,4'-DDE	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
Aldrin	mg/kg	NA	3.65E-02	ND				ND				ND				ND				ND			
Endrin	mg/kg	NA	2.32E+00	ND				ND				ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				ND				ND				ND			
Heptachlor	mg/kg	NA	1.40E-01	ND				ND				ND				ND				ND			
Methoxychlor	mg/kg	NA	3.89E+01	ND				ND				ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP39				PPMP-75-GP40				PPMP-75-GP41				PPMP-75-GP42				PPMP-75-GP43			
			Sample Number	KJ0080				KJ0083				KJ0085				KJ0088				KJ0090			
			Sample Date	22-Jan-99				26-Jan-99				25-Jan-99				25-Jan-99				25-Jan-99			
			Sample Depth (Feet)	3-6				5-8				3-6				3-6				3-6			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS																							
Aluminum	mg/kg	1.36E+04	7.80E+03	1.14E+04	J		YES	1.29E+04			YES	1.13E+04			YES	1.22E+04			YES	1.40E+04		YES	YES
Antimony	mg/kg	1.31E+00	3.11E+00	ND				6.30E-01	B			2.50E-01	J			4.20E-01	J			4.50E-01	J		
Arsenic	mg/kg	1.83E+01	4.26E-01	5.50E+00			YES	9.20E+00			YES	5.00E+00	J		YES	5.90E+00			YES	9.70E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	7.74E+01				3.81E+02	J	YES		2.13E+02	J			7.53E+01				7.70E+01			
Beryllium	mg/kg	8.60E-01	9.60E+00	1.50E+00	J	YES		1.40E+00	J	YES		9.00E-01		YES		8.10E-01				1.10E+00		YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND				1.40E-01	J			6.00E-02	J			3.80E-01	J	YES	
Calcium	mg/kg	6.37E+02	NA	1.70E+04	J	YES		3.34E+03		YES		2.02E+03	J	YES		7.35E+02	J	YES		1.23E+03	J	YES	
Chromium	mg/kg	3.83E+01	2.32E+01	1.81E+01	J			2.13E+01	J			1.78E+01				2.00E+01				2.00E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	1.15E+01				2.39E+01		YES		1.20E+01				1.04E+01				2.26E+01		YES	
Copper	mg/kg	1.94E+01	3.13E+02	2.03E+01		YES		1.96E+01		YES		1.90E+01				2.89E+01		YES		3.95E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	3.06E+04	J		YES	4.25E+04			YES	2.80E+04	J		YES	3.27E+04	J		YES	4.00E+04	J		YES
Lead	mg/kg	3.85E+01	4.00E+02	2.91E+01	J			3.18E+01	J			1.92E+01				1.64E+01				2.29E+01			
Magnesium	mg/kg	7.66E+02	NA	4.04E+03	J	YES		2.18E+03		YES		2.60E+03	J	YES		2.89E+03		YES		6.37E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	3.13E+02	J			2.32E+03		YES	YES	9.44E+02	J		YES	1.63E+02				4.39E+02			YES
Mercury	mg/kg	7.00E-02	2.33E+00	6.30E-02	J			ND				ND				ND				ND			
Nickel	mg/kg	1.29E+01	1.54E+02	2.27E+01	J	YES		1.55E+01		YES		1.57E+01	J	YES		2.06E+01		YES		3.69E+01		YES	
Potassium	mg/kg	7.11E+02	NA	7.41E+02		YES		4.73E+02	J			4.39E+02	J			4.44E+02	J			3.51E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	1.60E+00		YES		1.70E+00	J	YES		8.10E-01		YES		1.20E+00		YES		8.00E-01		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				3.00E-01	J	YES		1.00E-01	B			ND				ND			
Sodium	mg/kg	7.02E+02	NA	1.94E+02	B			9.16E+01	B			1.05E+02	B			5.27E+01	B			1.01E+02	B		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				1.20E+00	B		YES	7.00E-01	B		YES	1.00E+00	B		YES
Vanadium	mg/kg	6.49E+01	5.31E+01	2.88E+01				3.25E+01				2.48E+01	J			2.77E+01	J			2.64E+01	J		
Zinc	mg/kg	3.49E+01	2.34E+03	6.07E+01	B	YES		3.73E+01		YES		4.31E+01		YES		4.70E+01		YES		8.12E+01		YES	
VOLATILE ORGANIC COMPOUNDS																							
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	ND				6.60E-03	J			ND				4.10E-03	J			3.90E-03	J		
Acetone	mg/kg	NA	7.76E+02	3.90E-02	B			4.30E-02	J			1.20E-01	J			5.20E-02	J			1.10E-01	J		
Bromomethane	mg/kg	NA	1.09E+01	1.50E-03	B			ND				ND				ND				ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	2.60E-03	B			3.90E-03	B			1.80E-03	B			1.80E-03	B			1.80E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP39				PPMP-75-GP40				PPMP-75-GP41				PPMP-75-GP42				PPMP-75-GP43			
			Sample Number	KJ0080				KJ0083				KJ0085				KJ0088				KJ0090			
			Sample Date	22-Jan-99				26-Jan-99				25-Jan-99				25-Jan-99				25-Jan-99			
			Sample Depth (Feet)	3-6				5-8				3-6				3-6				3-6			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																							
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Acenaphthene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Acenaphthylene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Anthracene	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	ND				ND				4.90E-02	J			ND				ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	ND				ND				5.40E-02	J			ND				ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	ND				ND				9.40E-02	J			ND				ND			
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	ND				ND				6.70E-02	J			ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	ND				ND				ND				ND				ND			
Carbazole	mg/kg	NA	3.11E+01	ND				ND				ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	ND				ND				6.90E-02	J			ND				ND			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				ND				ND				ND			
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				ND				ND				ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				ND				ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	7.00E-02	J			ND				6.80E-02	J			ND				ND			
Fluorene	mg/kg	NA	3.09E+02	ND				ND				ND				ND				ND			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	ND				ND				6.30E-02	J			ND				ND			
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	4.70E-02	J			ND				4.40E-02	J			ND				ND			
Pyrene	mg/kg	NA	2.33E+02	5.90E-02	J			ND				5.80E-02	J			ND				ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	ND				ND				ND				ND				ND			
HERBICIDES																							
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	ND				ND				ND				ND				ND			
PESTICIDES																							
4,4'-DDE	mg/kg	NA	1.79E+00	2.30E-03	J			ND				ND				ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
Aldrin	mg/kg	NA	3.65E-02	ND				ND				ND				ND				ND			
Endrin	mg/kg	NA	2.32E+00	ND				ND				ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				ND				ND				ND			
Heptachlor	mg/kg	NA	1.40E-01	ND				ND				ND				ND				ND			
Methoxychlor	mg/kg	NA	3.89E+01	ND				ND				ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP44				PPMP-75-GP45				PPMP-75-GP46				PPMP-75-GP47				PPMP-75-GP48			
			Sample Number	KJ0092				KJ0094				KJ0096				KJ0100				KJ0102			
			Sample Date	25-Jan-99				25-Jan-99				25-Jan-99				25-Jan-99				28-Jan-99			
			Sample Depth (Feet)	3-6				1-4				3-6				1-3				2-4			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS																							
Aluminum	mg/kg	1.36E+04	7.80E+03	1.08E+04			YES	1.05E+04			YES	1.46E+04	J	YES	YES	1.36E+04	J	YES	YES	1.38E+04		YES	YES
Antimony	mg/kg	1.31E+00	3.11E+00	2.90E-01	J			6.60E-01	J			7.80E-01	J			4.50E-01	J			ND			
Arsenic	mg/kg	1.83E+01	4.26E-01	5.50E+00			YES	9.20E+00			YES	1.20E+01			YES	6.40E+00			YES	5.50E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	5.71E+01				4.24E+01				5.41E+01	J			3.04E+01	J			4.91E+01			
Beryllium	mg/kg	8.60E-01	9.60E+00	7.30E-01				7.80E-01				1.00E+00		YES		9.90E-01		YES		1.10E+00		YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	1.00E-01	J			1.50E-01	J			1.80E-01	J			1.50E-01	J			ND			
Calcium	mg/kg	6.37E+02	NA	1.10E+03	J	YES		1.93E+03	J	YES		6.64E+02		YES		4.76E+02	J			5.66E+02	J		
Chromium	mg/kg	3.83E+01	2.32E+01	1.76E+01				2.09E+01				3.01E+01			YES	1.69E+01				2.02E+01	J		
Cobalt	mg/kg	1.75E+01	4.68E+02	1.57E+01				1.15E+01				1.18E+01				9.60E+00				6.40E+00	J		
Copper	mg/kg	1.94E+01	3.13E+02	2.04E+01		YES		2.16E+01		YES		2.61E+01	J	YES		3.88E+01	J	YES		3.17E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	2.73E+04	J		YES	3.88E+04	J		YES	5.97E+04	J	YES	YES	3.56E+04	J		YES	3.48E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.56E+01				2.03E+01				2.62E+01	J			1.83E+01	J			1.72E+01			
Magnesium	mg/kg	7.66E+02	NA	2.61E+03		YES		2.51E+03		YES		1.04E+03	J	YES		5.89E+03	J	YES		4.42E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	3.53E+02				1.52E+02				1.53E+02	J			5.00E+01	J			5.91E+01			
Mercury	mg/kg	7.00E-02	2.33E+00	ND				ND				6.00E-02	J			ND				3.10E-02	B		
Nickel	mg/kg	1.29E+01	1.54E+02	1.66E+01		YES		1.71E+01		YES		1.10E+01				4.68E+01		YES		2.92E+01		YES	
Potassium	mg/kg	7.11E+02	NA	3.44E+02	J			3.24E+02	J			4.27E+02	J			2.87E+02	B			3.46E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	7.30E-01		YES		1.10E+00		YES		2.20E+00		YES		9.60E-01		YES		2.10E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	7.00E-02	J			ND				ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	8.38E+01	B			7.12E+01	B			4.68E+01	B			3.39E+01	B			1.06E+02	B		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				8.30E-01	B		YES	1.40E+00	B	YES	YES	5.10E-01	B		YES	ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	2.59E+01	J			2.99E+01	J			4.74E+01				2.19E+01				2.37E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	4.22E+01		YES		4.13E+01		YES		3.51E+01	J	YES		8.31E+01	J	YES		7.19E+01		YES	
VOLATILE ORGANIC COMPOUNDS																							
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	3.60E-03	J			ND				ND				ND				3.90E-03	J		
Acetone	mg/kg	NA	7.76E+02	1.80E-01	J			1.50E-01	J			3.30E-02	J			8.90E-02	J			3.70E-02	J		
Bromomethane	mg/kg	NA	1.09E+01	ND				ND				ND				ND				ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	1.90E-03	B			2.20E-03	B			2.50E-03	B			2.70E-03	B			3.40E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP44				PPMP-75-GP45				PPMP-75-GP46				PPMP-75-GP47				PPMP-75-GP48			
			Sample Number	KJ0092				KJ0094				KJ0096				KJ0100				KJ0102			
			Sample Date	25-Jan-99				25-Jan-99				25-Jan-99				25-Jan-99				28-Jan-99			
			Sample Depth (Feet)	3-6				1-4				3-6				1-3				2-4			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																							
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Acenaphthene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Acenaphthylene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Anthracene	mg/kg	NA	2.33E+03	ND				1.10E-01	J			ND				ND				ND			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	ND				2.80E-01	J			ND				ND				ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	ND				2.70E-01	J		YES	ND				ND				ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	ND				4.70E-01	J			ND				ND				ND			
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	ND				1.90E-01	J			ND				ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	ND				1.70E-01	J			ND				ND				ND			
Carbazole	mg/kg	NA	3.11E+01	ND				5.00E-02	J			ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	ND				3.50E-01	J			ND				ND				ND			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				ND				ND				ND			
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				ND				ND				ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				ND				ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	ND				6.50E-01	J			ND				ND				ND			
Fluorene	mg/kg	NA	3.09E+02	ND				ND				ND				ND				ND			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	ND				1.60E-01	J			ND				ND				ND			
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	ND				3.60E-01	J			ND				ND				ND			
Pyrene	mg/kg	NA	2.33E+02	ND				6.30E-01	J			ND				ND				ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	ND				ND				ND				ND				ND			
HERBICIDES																							
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	ND				ND				ND				ND				ND			
PESTICIDES																							
4,4'-DDE	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
Aldrin	mg/kg	NA	3.65E-02	ND				ND				ND				ND				ND			
Endrin	mg/kg	NA	2.32E+00	ND				ND				ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				ND				ND				ND			
Heptachlor	mg/kg	NA	1.40E-01	ND				ND				ND				ND				ND			
Methoxychlor	mg/kg	NA	3.89E+01	ND				ND				ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP49				PPMP-75-GP50				PPMP-75-GP51				PPMP-75-GP52				PPMP-75-GP53			
			Sample Number	KJ0104				KJ0105				KJ0107				KJ0109				KJ0111			
			Sample Date	28-Jan-99				22-Jan-99				22-Jan-99				22-Jan-99				25-Jan-99			
			Sample Depth (Feet)	6-9				3-6				4-7				3-6				2-4			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS																							
Aluminum	mg/kg	1.36E+04	7.80E+03	1.07E+04			YES	1.65E+04	J	YES	YES	1.54E+04	J	YES	YES	1.85E+04	J	YES	YES	1.22E+04	J		YES
Antimony	mg/kg	1.31E+00	3.11E+00	ND				ND				ND				ND				4.30E-01	J		
Arsenic	mg/kg	1.83E+01	4.26E-01	6.60E+00			YES	6.40E+00			YES	4.80E+00			YES	6.40E+00			YES	6.80E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	8.58E+01				9.73E+01				1.40E+02				8.19E+01				7.90E+01	J		
Beryllium	mg/kg	8.60E-01	9.60E+00	1.30E+00		YES		2.00E+00	J	YES		1.10E+00	J	YES		8.60E-01	J	YES		8.80E-01	J	YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND				ND				ND				1.40E-01	J		
Calcium	mg/kg	6.37E+02	NA	9.44E+02	J	YES		1.06E+03	J	YES		2.71E+03	J	YES		4.94E+02	J			6.33E+02			
Chromium	mg/kg	3.83E+01	2.32E+01	1.77E+01	J			2.36E+01	J		YES	1.75E+01	J			2.22E+01	J			1.84E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	1.19E+01	J			1.95E+01		YES		1.70E+01				6.20E+00	J			1.23E+01	J		
Copper	mg/kg	1.94E+01	3.13E+02	2.49E+01		YES		4.53E+01		YES		2.64E+01		YES		3.30E+01		YES		2.44E+01	J	YES	
Iron	mg/kg	4.48E+04	2.34E+03	3.70E+04			YES	4.28E+04	J		YES	2.98E+04	J		YES	4.66E+04	J	YES	YES	3.22E+04	J		YES
Lead	mg/kg	3.85E+01	4.00E+02	1.61E+01				3.01E+01	J			1.95E+01	J			1.69E+01	J			1.90E+01	J		
Magnesium	mg/kg	7.66E+02	NA	1.92E+03		YES		5.74E+03	J	YES		2.74E+03	J	YES		1.50E+03	J	YES		3.69E+03	J	YES	
Manganese	mg/kg	1.36E+03	3.63E+02	1.11E+02				1.81E+02	J			1.21E+02	J			2.63E+01	J			9.85E+01	J		
Mercury	mg/kg	7.00E-02	2.33E+00	3.60E-02	B			2.10E-02	J			4.90E-02				6.90E-02				ND			
Nickel	mg/kg	1.29E+01	1.54E+02	2.06E+01		YES		3.50E+01	J	YES		1.99E+01	J	YES		1.24E+01	J			2.47E+01	J	YES	
Potassium	mg/kg	7.11E+02	NA	3.72E+02	J			4.33E+02	j			4.02E+02	J			5.66E+02	J			4.55E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	2.00E+00		YES		2.40E+00	J	YES		2.10E+00		YES		3.10E+00		YES		1.10E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	9.40E+01	B			2.64E+02	J			1.17E+02	B			1.30E+02	B			6.19E+01	B		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				ND				ND				6.50E-01	B		YES
Vanadium	mg/kg	6.49E+01	5.31E+01	2.85E+01				3.33E+01				3.19E+01				4.37E+01				2.72E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	4.86E+01		YES		8.89E+01	J	YES		6.01E+01	J	YES		3.80E+01	J	YES		5.58E+01	J	YES	
VOLATILE ORGANIC COMPOUNDS																							
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				ND				ND				ND			
Acetone	mg/kg	NA	7.76E+02	1.10E-01	J			2.40E-01	J			2.60E-02	B			3.70E-02	B			4.40E-02	J		
Bromomethane	mg/kg	NA	1.09E+01	ND				ND				1.50E-03	B			1.80E-03	B			ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	3.00E-03	B			1.80E-03	B			2.00E-03	B			2.60E-03	B			2.60E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP49				PPMP-75-GP50				PPMP-75-GP51				PPMP-75-GP52				PPMP-75-GP53			
			Sample Number	KJ0104				KJ0105				KJ0107				KJ0109				KJ0111			
			Sample Date	28-Jan-99				22-Jan-99				22-Jan-99				22-Jan-99				25-Jan-99			
			Sample Depth (Feet)	6-9				3-6				4-7				3-6				2-4			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																							
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Acenaphthene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Acenaphthylene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Anthracene	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	ND				ND				ND				ND				ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	ND				ND				ND				ND				ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	ND				ND				ND				5.30E-02	J			ND			
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	ND				ND				ND				ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	ND				ND				ND				ND				ND			
Carbazole	mg/kg	NA	3.11E+01	ND				ND				ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	ND				ND				ND				ND				ND			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				ND				ND				ND			
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				ND				ND				ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				ND				ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	ND				ND				ND				ND				ND			
Fluorene	mg/kg	NA	3.09E+02	ND				ND				ND				ND				ND			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	ND				ND				ND				ND				ND			
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	ND				ND				ND				ND				ND			
Pyrene	mg/kg	NA	2.33E+02	ND				ND				ND				ND				ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	ND				ND				ND				ND				ND			
HERBICIDES																							
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	ND				ND				ND				ND				ND			
PESTICIDES																							
4,4'-DDE	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
Aldrin	mg/kg	NA	3.65E-02	ND				ND				ND				ND				ND			
Endrin	mg/kg	NA	2.32E+00	ND				ND				ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				ND				ND				ND			
Heptachlor	mg/kg	NA	1.40E-01	ND				ND				ND				ND				ND			
Methoxychlor	mg/kg	NA	3.89E+01	ND				ND				ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP54				PPMP-75-GP55				PPMP-75-GP56				PPMP-75-GP57				PPMP-75-GP58			
			Sample Number	KJ0113				KJ0115				KJ0119				KJ0121				KJ0123			
			Sample Date	25-Jan-99				22-Jan-99				26-Jan-99				26-Jan-99				26-Jan-99			
			Sample Depth (Feet)	1-4				3-6				3-6				1-3				4-7			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS																							
Aluminum	mg/kg	1.36E+04	7.80E+03	1.00E+04	J		YES	1.51E+04	J	YES	YES	1.70E+04		YES	YES	1.55E+04		YES	YES	1.47E+04		YES	YES
Antimony	mg/kg	1.31E+00	3.11E+00	3.60E-01	J			ND				6.20E-01	B			4.90E-01	B			3.40E-01	B		
Arsenic	mg/kg	1.83E+01	4.26E-01	6.40E+00			YES	5.00E+00			YES	1.09E+01			YES	8.80E+00			YES	7.90E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	3.47E+01	J			8.43E+01				1.16E+02	J			2.37E+02	J	YES		1.72E+02	J		
Beryllium	mg/kg	8.60E-01	9.60E+00	4.20E-01	B			1.10E+00	J	YES		1.40E+00	J	YES		1.50E+00	J	YES		1.10E+00	J	YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND				2.80E-01	J	YES		ND				ND			
Calcium	mg/kg	6.37E+02	NA	5.58E+02	J			2.26E+03	J	YES		6.92E+03		YES		2.89E+03		YES		3.09E+03		YES	
Chromium	mg/kg	3.83E+01	2.32E+01	1.78E+01				1.97E+01	J			1.92E+01	J			2.09E+01	J			1.87E+01	J		
Cobalt	mg/kg	1.75E+01	4.68E+02	5.10E+00	J			1.50E+01				2.00E+01		YES		1.29E+01				2.53E+01		YES	
Copper	mg/kg	1.94E+01	3.13E+02	1.78E+01	J			3.91E+01		YES		5.24E+01		YES		1.47E+01				2.23E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	2.88E+04	J		YES	3.26E+04	J		YES	4.56E+04		YES	YES	3.57E+04			YES	3.98E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.42E+01	J			1.81E+01	J			3.35E+01	J			1.82E+01	J			3.15E+01	J		
Magnesium	mg/kg	7.66E+02	NA	1.56E+03	J	YES		6.41E+03	J	YES		6.17E+03		YES		1.15E+03		YES		3.22E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	7.23E+01	J			3.03E+02	J			4.19E+02			YES	6.22E+02			YES	4.70E+02			YES
Mercury	mg/kg	7.00E-02	2.33E+00	ND				3.90E-02				5.00E-02	J			6.00E-02	J			4.00E-02	J		
Nickel	mg/kg	1.29E+01	1.54E+02	9.60E+00				3.93E+01	J	YES		3.36E+01		YES		1.37E+01		YES		1.69E+01		YES	
Potassium	mg/kg	7.11E+02	NA	3.70E+02	J			4.67E+02	J			5.07E+02	J			5.90E+02	J			5.76E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	1.30E+00		YES		1.80E+00		YES		1.60E+00		YES		1.40E+00		YES		1.10E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				6.00E-02	J			8.00E-02	J			ND			
Sodium	mg/kg	7.02E+02	NA	4.61E+01	B			1.10E+02	B			1.02E+02	B			1.07E+02	B			8.28E+01	B		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				ND				ND				ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	2.92E+01				2.58E+01				2.87E+01				3.87E+01				3.22E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	2.89E+01	J			9.90E+01	J	YES		8.96E+01		YES		2.92E+01				5.12E+01		YES	
VOLATILE ORGANIC COMPOUNDS																							
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				3.80E-03	J			7.40E-03	J			3.60E-03	J		
Acetone	mg/kg	NA	7.76E+02	1.20E-01	J			9.40E-02	B			2.50E-02	J			4.70E-02	J			8.60E-02	J		
Bromomethane	mg/kg	NA	1.09E+01	ND				1.40E-03	B			ND				ND				ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				3.20E-03	J			ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	2.30E-03	B			2.20E-03	B			3.50E-03	B			3.80E-03	B			4.00E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP54				PPMP-75-GP55				PPMP-75-GP56				PPMP-75-GP57				PPMP-75-GP58			
			Sample Number	KJ0113				KJ0115				KJ0119				KJ0121				KJ0123			
			Sample Date	25-Jan-99				22-Jan-99				26-Jan-99				26-Jan-99				26-Jan-99			
			Sample Depth (Feet)	1-4				3-6				3-6				1-3				4-7			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																							
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Acenaphthene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Acenaphthylene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Anthracene	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	ND				ND				ND				ND				ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	ND				ND				ND				ND				ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	ND				ND				ND				ND				ND			
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	ND				ND				ND				ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	ND				ND				ND				ND				ND			
Carbazole	mg/kg	NA	3.11E+01	ND				ND				ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	ND				ND				ND				ND				ND			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				ND				ND				ND			
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				ND				ND				ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				ND				ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	ND				ND				ND				ND				ND			
Fluorene	mg/kg	NA	3.09E+02	ND				ND				ND				ND				ND			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	ND				ND				ND				ND				ND			
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	ND				ND				ND				ND				ND			
Pyrene	mg/kg	NA	2.33E+02	ND				ND				ND				ND				ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	ND				ND				ND				ND				ND			
HERBICIDES																							
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	ND				ND				ND				ND				ND			
PESTICIDES																							
4,4'-DDE	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
Aldrin	mg/kg	NA	3.65E-02	ND				ND				ND				ND				ND			
Endrin	mg/kg	NA	2.32E+00	ND				ND				ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				ND				ND				ND			
Heptachlor	mg/kg	NA	1.40E-01	ND				ND				ND				ND				ND			
Methoxychlor	mg/kg	NA	3.89E+01	ND				ND				ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP59				PPMP-75-GP60				PPMP-75-GP61				PPMP-75-GP62				PPMP-75-GP63			
			Sample Number	KJ0125				KJ0127				KJ0130				KJ0131				KJ0133			
			Sample Date	26-Jan-99				26-Jan-99				26-Jan-99				26-Jan-99				26-Jan-99			
			Sample Depth (Feet)	3-6				3-6				3-6				3-6				0 - 3			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS																							
Aluminum	mg/kg	1.36E+04	7.80E+03	1.32E+04			YES	1.17E+04			YES	1.36E+04		YES	YES	1.15E+04			YES	1.43E+04		YES	YES
Antimony	mg/kg	1.31E+00	3.11E+00	3.80E-01	B			4.60E-01	J			4.40E-01	J			5.20E-01	J			2.60E-01	B		
Arsenic	mg/kg	1.83E+01	4.26E-01	1.03E+01			YES	6.60E+00			YES	8.70E+00			YES	6.50E+00			YES	1.50E+01	J		YES
Barium	mg/kg	2.34E+02	5.47E+02	2.80E+02	J	YES		9.99E+01				1.34E+02				1.53E+02				3.00E+01	J		
Beryllium	mg/kg	8.60E-01	9.60E+00	1.50E+00	J	YES		1.20E+00		YES		1.20E+00		YES		1.20E+00		YES		6.60E-01	J		
Cadmium	mg/kg	2.20E-01	6.25E+00	1.60E-01	J			ND				6.00E-02	J			ND				ND			
Calcium	mg/kg	6.37E+02	NA	8.84E+02		YES		1.06E+03		YES		1.62E+03		YES		1.42E+03		YES		5.66E+02	J		
Chromium	mg/kg	3.83E+01	2.32E+01	2.35E+01	J		YES	1.75E+01				1.93E+01				1.73E+01				1.64E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	8.93E+01		YES		9.30E+00				1.92E+01		YES		1.08E+01				9.40E+00			
Copper	mg/kg	1.94E+01	3.13E+02	1.95E+01		YES		1.63E+01				2.32E+01		YES		1.20E+01				1.22E+01	J		
Iron	mg/kg	4.48E+04	2.34E+03	4.65E+04		YES	YES	3.19E+04			YES	4.16E+04			YES	3.45E+04			YES	4.15E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	5.13E+01	J	YES		1.29E+01	J			1.91E+01	J			1.34E+01	J			2.68E+01	J		
Magnesium	mg/kg	7.66E+02	NA	1.17E+03		YES		1.05E+03		YES		2.56E+03		YES		1.22E+03		YES		3.99E+02	J		
Manganese	mg/kg	1.36E+03	3.63E+02	3.95E+03		YES	YES	1.56E+02	J			6.92E+02	J		YES	1.49E+02	J			8.19E+02	J		YES
Mercury	mg/kg	7.00E-02	2.33E+00	ND				ND				5.00E-02	J			5.00E-02	J			6.00E-02	J		
Nickel	mg/kg	1.29E+01	1.54E+02	2.01E+01		YES		1.26E+01				2.05E+01		YES		1.31E+01		YES		9.30E+00			
Potassium	mg/kg	7.11E+02	NA	4.70E+02	J			3.98E+02	J			4.32E+02	J			5.27E+02	J			2.70E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	2.50E+00	J	YES		1.10E+00		YES		1.30E+00		YES		1.00E+00		YES		1.40E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	1.60E-01	J			ND				1.20E-01	J			ND				ND			
Sodium	mg/kg	7.02E+02	NA	6.49E+01	B			6.31E+01	B			5.92E+01	B			6.51E+01	B			2.65E+01	B		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				5.40E-01	B		YES	ND				ND				ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	3.56E+01				2.90E+01				3.41E+01				3.41E+01				4.92E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	4.34E+01		YES		3.01E+01				6.42E+01		YES		2.17E+01				2.38E+01			
VOLATILE ORGANIC COMPOUNDS																							
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				ND				ND				ND			
Acetone	mg/kg	NA	7.76E+02	8.80E-02	J			2.30E-01	J			2.00E-01	J			7.90E-02	J			2.40E-02	J		
Bromomethane	mg/kg	NA	1.09E+01	ND				ND				ND				ND				ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	2.60E-03	B			3.60E-03	B			3.30E-03	B			3.30E-03	B			3.40E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP59				PPMP-75-GP60				PPMP-75-GP61				PPMP-75-GP62				PPMP-75-GP63			
			Sample Number	KJ0125				KJ0127				KJ0130				KJ0131				KJ0133			
			Sample Date	26-Jan-99				26-Jan-99				26-Jan-99				26-Jan-99				26-Jan-99			
			Sample Depth (Feet)	3-6				3-6				3-6				3-6				0 - 3			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																							
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Acenaphthene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Acenaphthylene	mg/kg	NA	4.63E+02	ND				ND				ND				ND				ND			
Anthracene	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	ND				ND				8.50E-02	J			1.50E-01	J			ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	ND				ND				1.20E-01	J		YES	1.40E-01	J		YES	ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	ND				6.70E-02	J			1.90E-01	J			3.60E-01	J			ND			
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	ND				ND				8.80E-02	J			8.60E-02	J			ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	ND				ND				7.50E-02	J			1.30E-01	J			ND			
Carbazole	mg/kg	NA	3.11E+01	ND				ND				ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	ND				4.20E-02	J			1.20E-01	J			3.20E-01	J			ND			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				ND				ND				ND			
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				ND				ND				ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				ND				ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	ND				6.10E-02	J			1.30E-01	J			4.30E-01				ND			
Fluorene	mg/kg	NA	3.09E+02	ND				ND				ND				ND				ND			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	ND				ND				9.10E-02	J			9.50E-02	J			ND			
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	ND				ND				ND				7.00E-02	J			ND			
Pyrene	mg/kg	NA	2.33E+02	ND				4.50E-02	J			9.50E-02	J			3.30E-01	J			ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	ND				ND				ND				ND				ND			
HERBICIDES																							
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	ND				ND				ND				ND				ND			
PESTICIDES																							
4,4'-DDE	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
Aldrin	mg/kg	NA	3.65E-02	ND				ND				ND				ND				ND			
Endrin	mg/kg	NA	2.32E+00	ND				ND				ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				ND				ND				ND			
Heptachlor	mg/kg	NA	1.40E-01	ND				ND				ND				ND				ND			
Methoxychlor	mg/kg	NA	3.89E+01	ND				ND				ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP64				PPMP-75-GP65				PPMP-75-GP66				PPMP-75-GP67				PPMP-75-GP68			
			Sample Number	KJ0135				KJ0137				KJ0139				KJ0141				KJ0142			
			Sample Date	26-Jan-99				26-Jan-99				27-Jan-99				27-Jan-99				21-Jan-99			
			Sample Depth (Feet)	3-6				2-5				1.5- 3.5				2-4				3-5			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS																							
Aluminum	mg/kg	1.36E+04	7.80E+03	2.04E+04		YES	YES	1.65E+04		YES	YES	1.60E+04		YES	YES	1.80E+04		YES	YES	1.09E+04			YES
Antimony	mg/kg	1.31E+00	3.11E+00	3.20E-01	B			5.80E-01	B			ND				ND				ND			
Arsenic	mg/kg	1.83E+01	4.26E-01	7.50E+00			YES	7.10E+00			YES	5.50E+00	J		YES	4.90E+00			YES	8.50E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	1.45E+02				1.29E+02				9.78E+01				7.71E+01				9.09E+01	J		
Beryllium	mg/kg	8.60E-01	9.60E+00	1.40E+00		YES		1.80E+00		YES		1.40E+00	J	YES		1.20E+00		YES		7.90E-01			
Cadmium	mg/kg	2.20E-01	6.25E+00	5.50E-01	J	YES		5.10E-01	J	YES		ND				ND				ND			
Calcium	mg/kg	6.37E+02	NA	5.01E+03		YES		3.47E+04		YES		2.43E+04		YES		2.54E+03	J	YES		2.56E+03	J	YES	
Chromium	mg/kg	3.83E+01	2.32E+01	2.22E+01				1.70E+01				1.66E+01				2.20E+01	J			1.30E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	2.96E+01		YES		2.08E+01		YES		1.75E+01				1.93E+01	J	YES		1.17E+01			
Copper	mg/kg	1.94E+01	3.13E+02	4.35E+01		YES		3.83E+01		YES		3.48E+01	J	YES		3.98E+01		YES		3.28E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	4.21E+04			YES	3.24E+04			YES	3.06E+04			YES	3.96E+04			YES	3.26E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	2.70E+01	J			1.93E+01	J			1.82E+01				2.13E+01				1.64E+01	J		
Magnesium	mg/kg	7.66E+02	NA	6.58E+03		YES		2.18E+04		YES		8.87E+03		YES		8.12E+03		YES		4.41E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	1.15E+03	J		YES	7.15E+02	J		YES	8.33E+02	J		YES	5.69E+02			YES	6.18E+02	J		YES
Mercury	mg/kg	7.00E-02	2.33E+00	7.00E-02	J	YES		5.00E-02	J			1.10E-02	J			4.30E-02				3.00E-02	B		
Nickel	mg/kg	1.29E+01	1.54E+02	4.75E+01		YES		4.07E+01		YES		3.57E+01		YES		4.65E+01		YES		3.09E+01		YES	
Potassium	mg/kg	7.11E+02	NA	6.15E+02	J			6.08E+02				6.40E+02				3.91E+02	J			2.52E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	8.00E-01		YES		4.80E-01	J	YES		1.30E+00	B	YES		1.50E+00		YES		1.30E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	1.20E-01	J			6.00E-02	J			ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	6.50E+01	B			1.16E+02	J			1.78E+02	B			1.69E+02	B			9.43E+01	B		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				ND				ND				ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	2.76E+01				2.60E+01				2.46E+01				2.51E+01				1.76E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	9.09E+01		YES		1.01E+02		YES		9.82E+01		YES		1.08E+02		YES		8.06E+01	J	YES	
VOLATILE ORGANIC COMPOUNDS																							
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				5.50E-02	J		
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND				ND				2.20E-02			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND				2.50E-02	J		
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				ND				ND				ND			
Acetone	mg/kg	NA	7.76E+02	3.70E-01	J			7.60E-02	J			1.30E-02	J			1.90E-01	J			2.90E-01	J		
Bromomethane	mg/kg	NA	1.09E+01	ND				ND				ND				ND				ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND				ND				7.00E-03			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				2.70E-03	J		
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND				ND				6.90E-03			
Methylene chloride	mg/kg	NA	8.41E+01	4.90E-03	B			3.10E-03	B			2.90E-03	B			3.20E-03	B			2.30E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				4.70E-02				2.70E-02				ND				5.30E+00	D		
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND				ND				9.90E-03			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				ND				ND				ND				ND			
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND				ND				4.50E-02			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				6.10E-03	J		
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND				7.10E-03	J		

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP64				PPMP-75-GP65				PPMP-75-GP66				PPMP-75-GP67				PPMP-75-GP68			
			Sample Number	KJ0135				KJ0137				KJ0139				KJ0141				KJ0142			
			Sample Date	26-Jan-99				26-Jan-99				27-Jan-99				27-Jan-99				21-Jan-99			
			Sample Depth (Feet)	3-6				2-5				1.5- 3.5				2-4				3-5			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																							
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				3.20E-01	J			5.60E-02	J			ND				ND			
Acenaphthene	mg/kg	NA	4.63E+02	ND				6.20E-01	J			7.90E-02	J			ND				ND			
Acenaphthylene	mg/kg	NA	4.63E+02	ND				ND				9.40E-02	J			ND				ND			
Anthracene	mg/kg	NA	2.33E+03	ND				2.20E+00				2.90E-01	J			ND				ND			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	ND				3.90E+00			YES	4.90E-01				ND				5.30E-02	J		
Benzo(a)pyrene	mg/kg	NA	8.51E-02	ND				3.20E+00			YES	4.50E-01			YES	ND				5.20E-02	J		
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	ND				4.10E+00			YES	5.20E-01				ND				6.20E-02	J		
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	ND				1.90E+00				1.20E-01	J			ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	ND				1.60E+00				4.40E-01				ND				ND			
Carbazole	mg/kg	NA	3.11E+01	ND				4.20E-01	J			ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	ND				3.60E+00				4.80E-01				ND				5.20E-02	J		
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				ND				ND				ND			
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				4.30E-01	J		YES	7.60E-02	J			ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				7.60E-01	J			9.80E-02	J			ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	ND				9.00E+00				1.10E+00				ND				1.40E-01	J		
Fluorene	mg/kg	NA	3.09E+02	ND				1.70E+00				1.90E-01	J			ND				4.50E-02	J		
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	ND				1.70E+00			YES	1.40E-01	J			ND				ND			
Naphthalene	mg/kg	NA	1.55E+02	ND				1.60E-01	J			9.00E-02	J			ND				6.00E-02	J		
Phenanthrene	mg/kg	NA	2.32E+03	ND				7.50E+00				9.20E-01				ND				1.70E-01	J		
Pyrene	mg/kg	NA	2.33E+02	ND				5.60E+00				9.30E-01				ND				1.10E-01	J		
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	ND				ND				1.10E-01	J			ND				ND			
HERBICIDES																							
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	ND				ND				ND				ND				ND			
PESTICIDES																							
4,4'-DDE	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND				ND				ND			
Aldrin	mg/kg	NA	3.65E-02	ND				ND				ND				ND				ND			
Endrin	mg/kg	NA	2.32E+00	ND				ND				ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				ND				ND				ND			
Heptachlor	mg/kg	NA	1.40E-01	ND				ND				ND				ND				ND			
Methoxychlor	mg/kg	NA	3.89E+01	ND				ND				ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	ND				ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP69				PPMP-75-GP70				PPMP-75-GP71				PPMP-75-GP72			
			Sample Number	KJ0144				KJ0146				KJ0149				KJ0151			
			Sample Date	22-Jan-99				27-Jan-99				21-Jan-99				28-Jan-99			
			Sample Depth (Feet)	1-3				4-7				1-3				3-6			
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/kg	1.36E+04	7.80E+03	6.78E+03	J			1.42E+04		YES	YES	9.68E+03			YES	1.30E+04			YES
Antimony	mg/kg	1.31E+00	3.11E+00	ND				ND				ND				ND			
Arsenic	mg/kg	1.83E+01	4.26E-01	7.60E+00			YES	8.20E+00			YES	6.10E+00			YES	5.10E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	2.57E+01				3.36E+01				5.00E+01	J			2.00E+02	J		
Beryllium	mg/kg	8.60E-01	9.60E+00	3.50E-01	J			9.50E-01		YES		6.50E-01				1.30E+00		YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND				ND				ND			
Calcium	mg/kg	6.37E+02	NA	1.54E+03	J	YES		7.09E+01	J			2.09E+03	J	YES		1.20E+03	J	YES	
Chromium	mg/kg	3.83E+01	2.32E+01	1.51E+01	J			1.87E+01	J			1.91E+01				1.74E+01	J		
Cobalt	mg/kg	1.75E+01	4.68E+02	1.60E+00	J			4.80E+00	J			1.04E+01				1.53E+01	J		
Copper	mg/kg	1.94E+01	3.13E+02	3.70E+01		YES		4.46E+01		YES		2.13E+01		YES		1.87E+01			
Iron	mg/kg	4.48E+04	2.34E+03	3.04E+04	J		YES	3.81E+04			YES	2.48E+04			YES	2.69E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.14E+01	J			2.16E+01				1.59E+01	J			1.63E+01			
Magnesium	mg/kg	7.66E+02	NA	3.13E+02	J			3.83E+03		YES		2.63E+03		YES		2.54E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	4.37E+01	J			3.56E+01				5.82E+02	J		YES	1.88E+02			
Mercury	mg/kg	7.00E-02	2.33E+00	2.80E-02	J			2.00E-02	B			2.90E-02	B			5.70E-02			
Nickel	mg/kg	1.29E+01	1.54E+02	7.20E+00	J			3.01E+01		YES		1.66E+01		YES		2.02E+01		YES	
Potassium	mg/kg	7.11E+02	NA	4.47E+02	J			4.05E+02	J			3.74E+02	J			3.24E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	2.30E+00		YES		1.90E+00		YES		1.30E+00		YES		1.20E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	8.99E+01	B			1.01E+02	B			1.17E+02	B			1.78E+02	B		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				ND				ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	4.04E+01				2.89E+01				2.17E+01				2.92E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	2.86E+01	J			8.50E+01		YES		5.08E+01	J	YES		4.58E+01		YES	
VOLATILE ORGANIC COMPOUNDS																			
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				ND				ND			
Acetone	mg/kg	NA	7.76E+02	8.10E-02	B			1.90E-01	J			ND				4.00E-01	J		
Bromomethane	mg/kg	NA	1.09E+01	1.70E-03	B			ND				ND				ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	1.40E-03	B			3.70E-03	B			1.80E-03	B			2.90E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				2.80E-03	J			ND				ND			
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP69				PPMP-75-GP70				PPMP-75-GP71				PPMP-75-GP72			
			Sample Number	KJ0144				KJ0146				KJ0149				KJ0151			
			Sample Date	22-Jan-99				27-Jan-99				21-Jan-99				28-Jan-99			
			Sample Depth (Feet)	1-3				4-7				1-3				3-6			
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/kg	1.36E+04	7.80E+03	6.78E+03	J			1.42E+04		YES	YES	9.68E+03			YES	1.30E+04			YES
Antimony	mg/kg	1.31E+00	3.11E+00	ND				ND				ND				ND			
Arsenic	mg/kg	1.83E+01	4.26E-01	7.60E+00			YES	8.20E+00			YES	6.10E+00			YES	5.10E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	2.57E+01				3.36E+01				5.00E+01	J			2.00E+02	J		
Beryllium	mg/kg	8.60E-01	9.60E+00	3.50E-01	J			9.50E-01		YES		6.50E-01				1.30E+00		YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND				ND				ND			
Calcium	mg/kg	6.37E+02	NA	1.54E+03	J	YES		7.09E+01	J			2.09E+03	J	YES		1.20E+03	J	YES	
Chromium	mg/kg	3.83E+01	2.32E+01	1.51E+01	J			1.87E+01	J			1.91E+01				1.74E+01	J		
Cobalt	mg/kg	1.75E+01	4.68E+02	1.60E+00	J			4.80E+00	J			1.04E+01				1.53E+01	J		
Copper	mg/kg	1.94E+01	3.13E+02	3.70E+01		YES		4.46E+01		YES		2.13E+01		YES		1.87E+01			
Iron	mg/kg	4.48E+04	2.34E+03	3.04E+04	J		YES	3.81E+04			YES	2.48E+04			YES	2.69E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.14E+01	J			2.16E+01				1.59E+01	J			1.63E+01			
Magnesium	mg/kg	7.66E+02	NA	3.13E+02	J			3.83E+03		YES		2.63E+03		YES		2.54E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	4.37E+01	J			3.56E+01				5.82E+02	J		YES	1.88E+02			
Mercury	mg/kg	7.00E-02	2.33E+00	2.80E-02	J			2.00E-02	B			2.90E-02	B			5.70E-02			
Nickel	mg/kg	1.29E+01	1.54E+02	7.20E+00	J			3.01E+01		YES		1.66E+01		YES		2.02E+01		YES	
Potassium	mg/kg	7.11E+02	NA	4.47E+02	J			4.05E+02	J			3.74E+02	J			3.24E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	2.30E+00		YES		1.90E+00		YES		1.30E+00		YES		1.20E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	8.99E+01	B			1.01E+02	B			1.17E+02	B			1.78E+02	B		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				ND				ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	4.04E+01				2.89E+01				2.17E+01				2.92E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	2.86E+01	J			8.50E+01		YES		5.08E+01	J	YES		4.58E+01		YES	
VOLATILE ORGANIC COMPOUNDS																			
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				ND				ND			
Acetone	mg/kg	NA	7.76E+02	8.10E-02	B			1.90E-01	J			ND				4.00E-01	J		
Bromomethane	mg/kg	NA	1.09E+01	1.70E-03	B			ND				ND				ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	1.40E-03	B			3.70E-03	B			1.80E-03	B			2.90E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				2.80E-03	J			ND				ND			
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP69				PPMP-75-GP70				PPMP-75-GP71				PPMP-75-GP72			
			Sample Number	KJ0144				KJ0146				KJ0149				KJ0151			
			Sample Date	22-Jan-99				27-Jan-99				21-Jan-99				28-Jan-99			
			Sample Depth (Feet)	1-3				4-7				1-3				3-6			
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																			
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND			
Acenaphthene	mg/kg	NA	4.63E+02	ND				ND				ND				ND			
Acenaphthylene	mg/kg	NA	4.63E+02	ND				ND				ND				ND			
Anthracene	mg/kg	NA	2.33E+03	ND				ND				ND				ND			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	ND				ND				ND				ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	ND				ND				ND				ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	ND				ND				ND				ND			
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	ND				ND				ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	ND				ND				ND				ND			
Carbazole	mg/kg	NA	3.11E+01	ND				ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	ND				ND				ND				ND			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				ND				ND			
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				ND				ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	ND				ND				ND				ND			
Fluorene	mg/kg	NA	3.09E+02	ND				ND				ND				ND			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	ND				ND				ND				ND			
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND			
Phenanthrene	mg/kg	NA	2.32E+03	ND				ND				ND				ND			
Pyrene	mg/kg	NA	2.33E+02	ND				ND				ND				ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	ND				ND				ND				ND			
HERBICIDES																			
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	ND				ND				ND				ND			
PESTICIDES																			
4,4'-DDE	mg/kg	NA	1.79E+00	ND				ND				ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND				ND			
Aldrin	mg/kg	NA	3.65E-02	ND				ND				ND				ND			
Endrin	mg/kg	NA	2.32E+00	ND				ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				ND				ND			
Heptachlor	mg/kg	NA	1.40E-01	ND				ND				ND				ND			
Methoxychlor	mg/kg	NA	3.89E+01	ND				ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	ND				ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP73				PPMP-75-GP74				PPMP-75-GP75			
			Sample Number	KJ0153				KJ0155				KJ0158			
			Sample Date	22-Jan-99				22-Jan-99				21-Jan-99			
			Sample Depth (Feet)	3-6				1-3				3-6			
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	1.11E+04	J		YES	1.23E+04	J		YES	1.65E+04		YES	YES
Antimony	mg/kg	1.31E+00	3.11E+00	ND				ND				ND			
Arsenic	mg/kg	1.83E+01	4.26E-01	4.20E+00			YES	5.00E+00			YES	6.60E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	9.09E+01				7.08E+01				9.99E+01	J		
Beryllium	mg/kg	8.60E-01	9.60E+00	8.40E-01	J			6.00E-01	J			1.10E+00		YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND				ND			
Calcium	mg/kg	6.37E+02	NA	5.89E+03	J	YES		3.09E+02	J			3.74E+03	J	YES	
Chromium	mg/kg	3.83E+01	2.32E+01	1.60E+01	J			1.88E+01	J			2.10E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	7.10E+00				3.00E+00	J			1.45E+01			
Copper	mg/kg	1.94E+01	3.13E+02	1.92E+01				1.90E+01				4.10E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	2.40E+04	J		YES	3.38E+04	J		YES	3.60E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.28E+01	J			1.30E+01	J			1.93E+01	J		
Magnesium	mg/kg	7.66E+02	NA	2.57E+03	J	YES		1.19E+03	J	YES		6.11E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	2.07E+02	J			1.60E+01	J			7.00E+02	J		YES
Mercury	mg/kg	7.00E-02	2.33E+00	2.30E-02	J			3.20E-02	J			4.70E-02			
Nickel	mg/kg	1.29E+01	1.54E+02	1.15E+01	J			8.10E+00	J			3.80E+01		YES	
Potassium	mg/kg	7.11E+02	NA	4.02E+02	J			2.56E+02	J			4.29E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	1.20E+00		YES		2.00E+00		YES		1.60E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				ND			
Sodium	mg/kg	7.02E+02	NA	1.61E+02	B			1.37E+02	B			1.23E+02	B		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	2.50E+01				3.25E+01				2.64E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	3.40E+01	J			2.71E+01	J			1.17E+02	J	YES	
VOLATILE ORGANIC COMPOUNDS															
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND			
1,2-Dimethylbenzene	mg/kg	NA	1.55E+04	ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				ND			
Acetone	mg/kg	NA	7.76E+02	1.60E-01	J			4.00E-01	J			2.60E-02	B		
Bromomethane	mg/kg	NA	1.09E+01	1.40E-03	B			1.50E-03	J			ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND			
Cumene	mg/kg	NA	7.77E+02	ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	1.90E-03	B			2.20E-03	B			1.70E-03	B		
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND			
Trichlorofluoromethane	mg/kg	NA	2.33E+03	ND				ND				ND			
m,p-Xylenes	mg/kg	NA	1.55E+04	ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND			
n-Propylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND			

Table 5-4

Subsurface Soil Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP73				PPMP-75-GP74				PPMP-75-GP75			
			Sample Number	KJ0153				KJ0155				KJ0158			
			Sample Date	22-Jan-99				22-Jan-99				21-Jan-99			
			Sample Depth (Feet)	3-6				1-3				3-6			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS															
2-Methylnaphthalene	mg/kg	NA	1.55E+02	ND				ND				ND			
Acenaphthene	mg/kg	NA	4.63E+02	ND				ND				ND			
Acenaphthylene	mg/kg	NA	4.63E+02	ND				ND				ND			
Anthracene	mg/kg	NA	2.33E+03	ND				ND				ND			
Benzo(a)anthracene	mg/kg	NA	8.51E-01	ND				ND				ND			
Benzo(a)pyrene	mg/kg	NA	8.51E-02	ND				ND				ND			
Benzo(b)fluoranthene	mg/kg	NA	8.51E-01	ND				ND				ND			
Benzo(ghi)perylene	mg/kg	NA	2.32E+02	ND				ND				ND			
Benzo(k)fluoranthene	mg/kg	NA	8.51E+00	ND				ND				ND			
Carbazole	mg/kg	NA	3.11E+01	ND				ND				ND			
Chrysene	mg/kg	NA	8.61E+01	ND				ND				ND			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				ND			
Dibenz(a,h)anthracene	mg/kg	NA	8.61E-02	ND				ND				ND			
Dibenzofuran	mg/kg	NA	3.09E+01	ND				ND				ND			
Fluoranthene	mg/kg	NA	3.09E+02	ND				ND				ND			
Fluorene	mg/kg	NA	3.09E+02	ND				ND				ND			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.51E-01	ND				ND				ND			
Naphthalene	mg/kg	NA	1.55E+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	ND				ND				ND			
HERBICIDES															
2,2-Dichloropropanoic Acid	mg/kg	NA	2.33E+02	ND				ND				ND			
PESTICIDES															
4,4'-DDE	mg/kg	NA	1.79E+00	ND				ND				ND			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND			
Aldrin	mg/kg	NA	3.65E-02	ND				ND				ND			
Endrin	mg/kg	NA	2.32E+00	ND				ND				ND			
Endrin ketone	mg/kg	NA	2.32E-01	ND				ND				ND			
Heptachlor	mg/kg	NA	1.40E-01	ND				ND				ND			
Methoxychlor	mg/kg	NA	3.89E+01	ND				ND				ND			
delta-BHC	mg/kg	NA	2.33E+00	ND				ND				ND			

Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods.

[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).

D - Dilution was performed; the result reported is from the dilution.

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

mg/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 5-5

Groundwater Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP04				PPMP-75-GP05				PPMP-75-GP07				PPMP-75-GP08			
			Sample Number	KJ3004				KJ3005				KJ3006				KJ3007			
			Sample Date	25-Feb-99				25-Feb-99				25-Feb-99				1-Mar-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	2.15E-01				1.81E+01		YES	YES	2.31E-01				7.60E-02	B		
Arsenic	mg/L	1.78E-02	4.00E-05	ND				4.30E-03	B		YES	ND				ND			
Barium	mg/L	1.27E-01	1.10E-01	3.65E-02	J			1.76E-01	J	YES	YES	1.66E-02	J			2.36E-02	J		
Beryllium	mg/L	1.24E-03	3.12E-03	ND				1.10E-03	J			ND				ND			
Calcium	mg/L	5.65E+01	NA	2.40E+02		YES		1.07E+02		YES		3.05E+02		YES		2.69E+01			
Chromium	mg/L	NA	4.69E-03	ND				2.73E-02			YES	ND				ND			
Cobalt	mg/L	2.34E-02	9.39E-02	6.40E-03	J			1.13E-02	J			ND				ND			
Copper	mg/L	2.55E-02	6.26E-02	ND				1.91E-02	J			ND				ND			
Iron	mg/L	7.04E+00	4.69E-01	2.07E-01				2.63E+01		YES	YES	2.26E-01				ND			
Lead	mg/L	7.99E-03	1.50E-02	ND				1.28E-02		YES		ND				ND			
Magnesium	mg/L	2.13E+01	NA	1.56E+02		YES		5.78E+01		YES		1.97E+02		YES		2.12E+01			
Manganese	mg/L	5.81E-01	7.35E-02	1.16E+00		YES	YES	3.91E-01			YES	1.01E+00		YES	YES	3.66E-01			YES
Mercury	mg/L	NA	4.60E-04	ND				ND				ND				ND			
Nickel	mg/L	NA	3.13E-02	ND				3.50E-02	J		YES	ND				ND			
Potassium	mg/L	7.20E+00	NA	2.74E+00	J			9.81E+00		YES		3.03E+00	J			ND			
Sodium	mg/L	1.48E+01	NA	1.89E+02		YES		2.95E+01		YES		1.81E+02		YES		4.13E+00	B		
Thallium	mg/L	1.45E-03	1.00E-04	ND				ND				ND				ND			
Vanadium	mg/L	1.70E-02	1.10E-02	ND				2.78E-02	J	YES	YES	ND				ND			
Zinc	mg/L	2.20E-01	4.69E-01	ND				4.89E-02				ND				ND			
VOLATILE ORGANIC COMPOUNDS																			
1,2,3-Trichlorobenzene	mg/L	NA	1.32E-03	ND				ND				ND				ND			
1,2,4-Trichlorobenzene	mg/L	NA	1.35E-02	ND				ND				ND				ND			
Acetone	mg/L	NA	1.56E-01	ND				ND				ND				ND			
Chloroform	mg/L	NA	1.15E-03	ND				ND				ND				ND			
Methylene chloride	mg/L	NA	7.85E-03	ND				ND				ND				ND			
Naphthalene	mg/L	NA	3.00E-03	ND				ND				ND				ND			
Toluene	mg/L	NA	2.59E-01	ND				ND				ND				ND			
SEMIVOLATILE ORGANIC COMPOUNDS																			
bis(2-Ethylhexyl)phthalate	mg/L	NA	4.30E-03	ND				ND				ND				ND			
HERBICIDES																			
2,2-Dichloropropanoic Acid	mg/L	NA	4.68E-02	ND				ND				ND				ND			
PESTICIDES																			
Endosulfan sulfate	mg/L	NA	9.35E-03	ND				ND				ND				ND			

Table 5-5

Groundwater Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP09				PPMP-75-GP10				PPMP-75-GP12				PPMP-75-GP13			
			Sample Number	KJ3010				KJ3011				KJ3012				KJ3013			
			Sample Date	25-Feb-99				26-Feb-99				26-Feb-99				1-Mar-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	2.97E+00		YES	YES	1.08E-01	J			1.05E+00				1.98E-01	J		
Arsenic	mg/L	1.78E-02	4.00E-05	ND				ND				ND				ND			
Barium	mg/L	1.27E-01	1.10E-01	3.88E-02	J			5.24E-02	J			3.06E-02	J			2.66E-02	J		
Beryllium	mg/L	1.24E-03	3.12E-03	ND				ND				ND				ND			
Calcium	mg/L	5.65E+01	NA	4.53E+02		YES		1.16E+02		YES		2.62E+02		YES		3.34E+02		YES	
Chromium	mg/L	NA	4.69E-03	6.50E-03	J		YES	ND				ND				5.80E-03	J		YES
Cobalt	mg/L	2.34E-02	9.39E-02	ND				ND				ND				6.40E-03	J		
Copper	mg/L	2.55E-02	6.26E-02	5.00E-03	B			ND				ND				ND			
Iron	mg/L	7.04E+00	4.69E-01	9.16E+00		YES	YES	1.02E-01				1.53E+00			YES	2.29E-01			
Lead	mg/L	7.99E-03	1.50E-02	1.90E-03	J			ND				ND				ND			
Magnesium	mg/L	2.13E+01	NA	4.24E+02		YES		8.17E+01		YES		1.46E+02		YES		1.58E+02		YES	
Manganese	mg/L	5.81E-01	7.35E-02	2.74E+00		YES	YES	3.58E-01			YES	3.75E-01			YES	8.97E-01		YES	YES
Mercury	mg/L	NA	4.60E-04	ND				ND				ND				ND			
Nickel	mg/L	NA	3.13E-02	ND				ND				ND				2.16E-02	J		
Potassium	mg/L	7.20E+00	NA	1.00E+01		YES		3.87E+00	J			2.87E+00	J			6.19E+00			
Sodium	mg/L	1.48E+01	NA	3.80E+02		YES		1.26E+02		YES		1.17E+02		YES		1.12E+02		YES	
Thallium	mg/L	1.45E-03	1.00E-04	ND				ND				ND				ND			
Vanadium	mg/L	1.70E-02	1.10E-02	ND				ND				ND				ND			
Zinc	mg/L	2.20E-01	4.69E-01	1.29E-02	J			1.27E-02	J			ND				1.14E-02	J		
VOLATILE ORGANIC COMPOUNDS																			
1,2,3-Trichlorobenzene	mg/L	NA	1.32E-03	ND				ND				ND				ND			
1,2,4-Trichlorobenzene	mg/L	NA	1.35E-02	ND				ND				ND				ND			
Acetone	mg/L	NA	1.56E-01	ND				ND				1.60E-03	B			ND			
Chloroform	mg/L	NA	1.15E-03	ND				2.20E-04	J			ND				ND			
Methylene chloride	mg/L	NA	7.85E-03	ND				ND				ND				ND			
Naphthalene	mg/L	NA	3.00E-03	ND				ND				ND				ND			
Toluene	mg/L	NA	2.59E-01	ND				ND				ND				ND			
SEMIVOLATILE ORGANIC COMPOUNDS																			
bis(2-Ethylhexyl)phthalate	mg/L	NA	4.30E-03	ND				ND				ND				ND			
HERBICIDES																			
2,2-Dichloropropanoic Acid	mg/L	NA	4.68E-02	2.50E-03				ND				ND				ND			
PESTICIDES																			
Endosulfan sulfate	mg/L	NA	9.35E-03	ND				ND				ND				ND			

Table 5-5

Groundwater Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP21				PPMP-75-GP23				PPMP-75-GP24				PPMP-75-GP25			
			Sample Number	KJ3014				KJ3015				KJ3016				KJ3017			
			Sample Date	1-Mar-99				1-Mar-99				2-Mar-99				2-Mar-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	8.88E-01				7.90E-02	B			6.83E-02	B			5.47E-01			
Arsenic	mg/L	1.78E-02	4.00E-05	ND				ND				ND				ND			
Barium	mg/L	1.27E-01	1.10E-01	2.15E-02	J			1.48E-02	J			1.55E-02	J			1.90E-02	J		
Beryllium	mg/L	1.24E-03	3.12E-03	ND				ND				ND				ND			
Calcium	mg/L	5.65E+01	NA	3.28E+02		YES		1.48E+02		YES		2.20E+02		YES		1.14E+02		YES	
Chromium	mg/L	NA	4.69E-03	ND				ND				ND				ND			
Cobalt	mg/L	2.34E-02	9.39E-02	ND				ND				ND				ND			
Copper	mg/L	2.55E-02	6.26E-02	ND				ND				ND				ND			
Iron	mg/L	7.04E+00	4.69E-01	1.10E+00			YES	1.01E-01				1.12E-01	B			5.28E-01			YES
Lead	mg/L	7.99E-03	1.50E-02	ND				ND				ND				ND			
Magnesium	mg/L	2.13E+01	NA	2.52E+02		YES		8.98E+01		YES		1.34E+02		YES		6.40E+01		YES	
Manganese	mg/L	5.81E-01	7.35E-02	5.91E-01		YES	YES	2.77E-01			YES	3.42E-01			YES	1.66E-01			YES
Mercury	mg/L	NA	4.60E-04	ND				ND				ND				ND			
Nickel	mg/L	NA	3.13E-02	ND				ND				ND				ND			
Potassium	mg/L	7.20E+00	NA	3.00E+00	J			1.81E+00	J			3.14E+00	J			1.82E+00	J		
Sodium	mg/L	1.48E+01	NA	2.12E+02		YES		1.07E+02		YES		1.33E+02		YES		8.16E+01		YES	
Thallium	mg/L	1.45E-03	1.00E-04	ND				ND				ND				ND			
Vanadium	mg/L	1.70E-02	1.10E-02	ND				ND				ND				ND			
Zinc	mg/L	2.20E-01	4.69E-01	1.38E-02	J			ND				ND				ND			
VOLATILE ORGANIC COMPOUNDS																			
1,2,3-Trichlorobenzene	mg/L	NA	1.32E-03	ND				ND				ND				ND			
1,2,4-Trichlorobenzene	mg/L	NA	1.35E-02	ND				ND				ND				ND			
Acetone	mg/L	NA	1.56E-01	ND				ND				ND				2.20E-03	B		
Chloroform	mg/L	NA	1.15E-03	ND				ND				ND				ND			
Methylene chloride	mg/L	NA	7.85E-03	ND				ND				ND				ND			
Naphthalene	mg/L	NA	3.00E-03	ND				ND				ND				ND			
Toluene	mg/L	NA	2.59E-01	3.10E-03	J			ND				ND				ND			
SEMIVOLATILE ORGANIC COMPOUNDS																			
bis(2-Ethylhexyl)phthalate	mg/L	NA	4.30E-03	ND				ND				ND				ND			
HERBICIDES																			
2,2-Dichloropropanoic Acid	mg/L	NA	4.68E-02	ND				ND				ND				ND			
PESTICIDES																			
Endosulfan sulfate	mg/L	NA	9.35E-03	ND				2.20E-05	J			ND				ND			

Table 5-5

Groundwater Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP27				PPMP-75-GP28				PPMP-75-GP30				PPMP-75-GP50			
			Sample Number	KJ3018				KJ3021				KJ3022				KJ3024			
			Sample Date	2-Mar-99				2-Mar-99				3-Mar-99				3-Mar-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	1.53E-01	J			3.32E-01				9.25E-02	B			3.66E-01			
Arsenic	mg/L	1.78E-02	4.00E-05	ND				ND				ND				ND			
Barium	mg/L	1.27E-01	1.10E-01	1.78E-02	J			2.06E-02	J			1.94E-02	J			2.88E-02	J		
Beryllium	mg/L	1.24E-03	3.12E-03	ND				ND				ND				ND			
Calcium	mg/L	5.65E+01	NA	4.31E+02		YES		1.74E+02		YES		2.32E+02		YES		9.73E+01		YES	
Chromium	mg/L	NA	4.69E-03	ND				ND				ND				ND			
Cobalt	mg/L	2.34E-02	9.39E-02	ND				ND				ND				ND			
Copper	mg/L	2.55E-02	6.26E-02	ND				ND				ND				ND			
Iron	mg/L	7.04E+00	4.69E-01	2.09E-01				7.89E-01			YES	1.44E+00			YES	5.03E-01			YES
Lead	mg/L	7.99E-03	1.50E-02	ND				ND				ND				ND			
Magnesium	mg/L	2.13E+01	NA	2.57E+02		YES		9.28E+01		YES		1.23E+02		YES		4.19E+01		YES	
Manganese	mg/L	5.81E-01	7.35E-02	1.30E+00		YES	YES	1.74E-01			YES	6.78E-01		YES	YES	3.11E-01			YES
Mercury	mg/L	NA	4.60E-04	ND				ND				ND				ND			
Nickel	mg/L	NA	3.13E-02	ND				ND				ND				ND			
Potassium	mg/L	7.20E+00	NA	2.59E+00	J			2.53E+00	J			3.15E+00	J			1.10E+00	J		
Sodium	mg/L	1.48E+01	NA	1.22E+02		YES		1.23E+02		YES		9.57E+01		YES		4.10E+01		YES	
Thallium	mg/L	1.45E-03	1.00E-04	ND				ND				ND				ND			
Vanadium	mg/L	1.70E-02	1.10E-02	ND				ND				ND				ND			
Zinc	mg/L	2.20E-01	4.69E-01	ND				ND				ND				ND			
VOLATILE ORGANIC COMPOUNDS																			
1,2,3-Trichlorobenzene	mg/L	NA	1.32E-03	ND				ND				2.20E-04	B			ND			
1,2,4-Trichlorobenzene	mg/L	NA	1.35E-02	ND				ND				1.80E-04	B			ND			
Acetone	mg/L	NA	1.56E-01	ND				ND				ND				ND			
Chloroform	mg/L	NA	1.15E-03	ND				ND				ND				ND			
Methylene chloride	mg/L	NA	7.85E-03	ND				ND				ND				ND			
Naphthalene	mg/L	NA	3.00E-03	ND				ND				2.60E-04	B			ND			
Toluene	mg/L	NA	2.59E-01	ND				ND				ND				ND			
SEMIVOLATILE ORGANIC COMPOUNDS																			
bis(2-Ethylhexyl)phthalate	mg/L	NA	4.30E-03	ND				ND				ND				ND			
HERBICIDES																			
2,2-Dichloropropanoic Acid	mg/L	NA	4.68E-02	ND				ND				ND				ND			
PESTICIDES																			
Endosulfan sulfate	mg/L	NA	9.35E-03	ND				ND				ND				ND			

Table 5-5

Groundwater Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP55				PPMP-75-GP68				PPMP-75-GP69				PPMP-75-GP71			
			Sample Number	KJ3025				KJ3026				KJ3032				KJ3028			
			Sample Date	3-Mar-99				4-Mar-99				31-Mar-99				4-Mar-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	1.60E-01	J			7.93E-02	B			4.73E+00	J	YES	YES	2.92E-01			
Arsenic	mg/L	1.78E-02	4.00E-05	ND				ND				ND				ND			
Barium	mg/L	1.27E-01	1.10E-01	2.17E-02	J			8.57E-02	J			1.12E-01	J		YES	3.15E-02	J		
Beryllium	mg/L	1.24E-03	3.12E-03	ND				ND				ND				ND			
Calcium	mg/L	5.65E+01	NA	7.55E+01		YES		1.26E+02		YES		8.19E+01		YES		1.39E+02		YES	
Chromium	mg/L	NA	4.69E-03	ND				ND				ND				ND			
Cobalt	mg/L	2.34E-02	9.39E-02	ND				ND				ND				ND			
Copper	mg/L	2.55E-02	6.26E-02	ND				ND				4.10E-03	B			ND			
Iron	mg/L	7.04E+00	4.69E-01	1.46E-01				9.22E-01			YES	5.33E+00			YES	9.45E-01			YES
Lead	mg/L	7.99E-03	1.50E-02	ND				ND				1.70E-03	J			ND			
Magnesium	mg/L	2.13E+01	NA	4.34E+01		YES		1.61E+01				9.78E+00				3.10E+01		YES	
Manganese	mg/L	5.81E-01	7.35E-02	1.02E-01			YES	3.14E-01			YES	1.12E-01			YES	8.45E-02			YES
Mercury	mg/L	NA	4.60E-04	ND				ND				ND				ND			
Nickel	mg/L	NA	3.13E-02	ND				ND				ND				ND			
Potassium	mg/L	7.20E+00	NA	1.23E+00	J			ND				1.44E+00	J			2.66E+00	J		
Sodium	mg/L	1.48E+01	NA	5.35E+01		YES		9.69E+00				1.13E+01				2.30E+01		YES	
Thallium	mg/L	1.45E-03	1.00E-04	ND				ND				4.60E-03	J	YES	YES	ND			
Vanadium	mg/L	1.70E-02	1.10E-02	ND				ND				1.09E-02	J			ND			
Zinc	mg/L	2.20E-01	4.69E-01	ND				ND				1.56E-02	J			ND			
VOLATILE ORGANIC COMPOUNDS																			
1,2,3-Trichlorobenzene	mg/L	NA	1.32E-03	ND				ND				ND				ND			
1,2,4-Trichlorobenzene	mg/L	NA	1.35E-02	ND				ND				ND				ND			
Acetone	mg/L	NA	1.56E-01	ND				ND				ND				ND			
Chloroform	mg/L	NA	1.15E-03	ND				ND				ND				ND			
Methylene chloride	mg/L	NA	7.85E-03	ND				ND				7.90E-04	B			ND			
Naphthalene	mg/L	NA	3.00E-03	ND				ND				ND				ND			
Toluene	mg/L	NA	2.59E-01	ND				ND				ND				ND			
SEMIVOLATILE ORGANIC COMPOUNDS																			
bis(2-Ethylhexyl)phthalate	mg/L	NA	4.30E-03	ND				ND				ND				3.00E-03	J		
HERBICIDES																			
2,2-Dichloropropanoic Acid	mg/L	NA	4.68E-02	ND				ND				ND				ND			
PESTICIDES																			
Endosulfan sulfate	mg/L	NA	9.35E-03	ND				ND				ND				ND			

Table 5-5

Groundwater Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

			Parcel	PPMP-75				PPMP-75				PPMP-75			
			Sample Location	PPMP-75-GP73				PPMP-75-GP74				PPMP-75-GP75			
			Sample Number	KJ3029				KJ3030				KJ3031			
			Sample Date	5-Mar-99				8-Mar-99				8-Mar-99			
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	5.76E-02	J			1.18E-01	B			1.31E-01	B		
Arsenic	mg/L	1.78E-02	4.00E-05	ND				ND				ND			
Barium	mg/L	1.27E-01	1.10E-01	1.64E-02	J			2.17E-02	J			5.26E-02	J		
Beryllium	mg/L	1.24E-03	3.12E-03	ND				ND				ND			
Calcium	mg/L	5.65E+01	NA	2.97E+02		YES		3.02E+02		YES		1.05E+02		YES	
Chromium	mg/L	NA	4.69E-03	ND				ND				ND			
Cobalt	mg/L	2.34E-02	9.39E-02	ND				ND				ND			
Copper	mg/L	2.55E-02	6.26E-02	ND				ND				ND			
Iron	mg/L	7.04E+00	4.69E-01	2.33E+00			YES	1.64E-01				1.42E-01			
Lead	mg/L	7.99E-03	1.50E-02	ND				ND				ND			
Magnesium	mg/L	2.13E+01	NA	1.44E+02		YES		1.68E+02		YES		1.65E+01			
Manganese	mg/L	5.81E-01	7.35E-02	3.79E-01			YES	6.58E-01		YES	YES	1.20E-01			YES
Mercury	mg/L	NA	4.60E-04	ND				7.60E-05	B			8.20E-05	B		
Nickel	mg/L	NA	3.13E-02	ND				1.05E-02	J			ND			
Potassium	mg/L	7.20E+00	NA	3.91E+00	J			5.03E+00				8.52E-01	J		
Sodium	mg/L	1.48E+01	NA	1.03E+02		YES		1.43E+02		YES		9.81E+00			
Thallium	mg/L	1.45E-03	1.00E-04	ND				ND				ND			
Vanadium	mg/L	1.70E-02	1.10E-02	ND				ND				ND			
Zinc	mg/L	2.20E-01	4.69E-01	ND				ND				ND			
VOLATILE ORGANIC COMPOUNDS															
1,2,3-Trichlorobenzene	mg/L	NA	1.32E-03	ND				ND				ND			
1,2,4-Trichlorobenzene	mg/L	NA	1.35E-02	ND				ND				ND			
Acetone	mg/L	NA	1.56E-01	ND				ND				ND			
Chloroform	mg/L	NA	1.15E-03	ND				ND				ND			
Methylene chloride	mg/L	NA	7.85E-03	ND				ND				ND			
Naphthalene	mg/L	NA	3.00E-03	ND				ND				ND			
Toluene	mg/L	NA	2.59E-01	ND				ND				ND			
SEMIVOLATILE ORGANIC COMPOUNDS															
bis(2-Ethylhexyl)phthalate	mg/L	NA	4.30E-03	ND				ND				ND			
HERBICIDES															
2,2-Dichloropropanoic Acid	mg/L	NA	4.68E-02	ND				2.20E-03	J			ND			
PESTICIDES															
Endosulfan sulfate	mg/L	NA	9.35E-03	ND				ND				ND			

Table 5-5

Groundwater Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods.

[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 was positively identified; reported value is the estimated concentration.

mg/L - Milligrams per liter.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 5-6

Surface Water Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	FTP-77					PPMP-75					PPMP-75					PPMP-75					
				Sample Location	FTP-77-SW/SD02					PPMP-75-SW/SD01					PPMP-75-SW/SD02					PPMP-75-SW/SD03					
				Sample Number	HK2002					KJ2001					KJ2002					KJ2003					
				Sample Date	26-Jan-99					25-Jan-99					25-Jan-99					25-Jan-99					
Parameter	Units	BKG[a]	SSSL[b]	ESV[b]	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result
METALS																									
Aluminum	mg/L	5.26E+00	1.53E+01	8.70E-02	3.26E-01				YES	1.79E+00				YES	2.75E-01				YES	1.71E-01	J			YES	4.24E-01
Arsenic	mg/L	2.10E-03	7.30E-04	1.90E-01	ND					3.30E-03	J	YES	YES		ND					ND					ND
Barium	mg/L	7.53E-02	1.10E+00	3.90E-03	4.03E-02	J			YES	1.03E-01	J	YES		YES	4.01E-02	J			YES	3.61E-02	J			YES	2.88E-02
Beryllium	mg/L	3.00E-04	1.75E-02	5.30E-04	ND					2.60E-04	B				ND					1.20E-04	B				ND
Cadmium	mg/L	1.10E-03	6.80E-03	6.60E-04	2.10E-04	J				2.90E-04	B				ND					ND					ND
Calcium	mg/L	2.52E+01	NA	1.16E+02	4.01E+01		YES			4.95E+01		YES			4.79E+01		YES			3.98E+01	J	YES			3.12E+01
Chromium	mg/L	1.11E-02	4.08E-02	1.10E-02	1.10E-03	J				3.50E-03	J				6.10E-04	B				ND					ND
Cobalt	mg/L	NA	9.31E-01	3.00E-03	ND					4.10E-03	J			YES	ND					ND					ND
Copper	mg/L	1.27E-02	6.23E-01	6.54E-03	ND					7.40E-03	J			YES	ND					ND					ND
Iron	mg/L	1.96E+01	4.70E+00	1.00E+00	3.93E-01					1.78E+00				YES	4.05E-01					3.06E-01	J				3.51E-01
Lead	mg/L	8.60E-03	1.50E-02	1.32E-03	ND					1.34E-02		YES		YES	ND					ND					1.10E-03
Magnesium	mg/L	1.10E+01	NA	8.20E+01	1.43E+01		YES			7.29E+00					1.21E+01		YES			1.08E+01	J				7.25E+00
Manganese	mg/L	5.65E-01	6.40E-01	8.00E-02	2.66E-02					7.18E-02					7.29E-02					5.12E-02	J				1.17E-02
Potassium	mg/L	2.56E+00	NA	5.30E+01	1.65E+00	B				1.97E+00	J				1.72E+00	J				1.65E+00	J				1.57E+00
Selenium	mg/L	NA	7.82E-02	5.00E-03	ND					2.90E-03	B				4.60E-03	B				ND					2.30E-03
Silver	mg/L	NA	7.90E-02	1.00E-05	5.30E-04	J			YES	ND					ND					ND					ND
Sodium	mg/L	3.44E+00	NA	6.80E+02	5.79E+00		YES			2.00E+00	J				5.43E+00		YES			4.80E+00	J	YES			2.28E+00
Vanadium	mg/L	1.52E-02	7.90E-02	1.90E-02	2.50E-03	J				8.50E-03	B				5.10E-03	B				2.60E-03	B				5.00E-03
Zinc	mg/L	4.03E-02	4.65E+00	5.89E-02	1.37E-02	J				4.30E-02		YES			ND					ND					ND
SEMIVOLATILE ORGANIC COMPOUNDS																									
Phenol	mg/L	NA	9.06E+00	2.56E-01	ND					ND					5.80E-03	J				ND					ND

Table 5-6

Surface Water Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

(Page 2 of 3)

				Parcel	PPMP-75				PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-SW/SD04				PPMP-75-SW/SD05					PPMP-75-SW/SD06					PPMP-75-SW/SD07				
				Sample Number	KJ2004				KJ2005					KJ2006					KJ2008				
				Sample Date	25-Jan-99				25-Jan-99					25-Jan-99					25-Jan-99				
Parameter	Units	BKG[a]	SSSL[b]	ESV[b]	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
METALS																							
Aluminum	mg/L	5.26E+00	1.53E+01	8.70E-02	J			YES	3.85E-01				YES	6.31E-01				YES	1.67E-01	J			YES
Arsenic	mg/L	2.10E-03	7.30E-04	1.90E-01					ND					ND					ND				
Barium	mg/L	7.53E-02	1.10E+00	3.90E-03	J			YES	3.56E-02	J			YES	3.96E-02	J			YES	3.90E-02	J			YES
Beryllium	mg/L	3.00E-04	1.75E-02	5.30E-04					ND					1.70E-04	B				ND				
Cadmium	mg/L	1.10E-03	6.80E-03	6.60E-04					ND					ND					3.40E-04	B			
Calcium	mg/L	2.52E+01	NA	1.16E+02	J	YES			3.76E+01		YES			4.04E+01		YES			4.33E+01	J	YES		
Chromium	mg/L	1.11E-02	4.08E-02	1.10E-02					7.00E-04	B				6.80E-04	B				ND				
Cobalt	mg/L	NA	9.31E-01	3.00E-03					ND					ND					ND				
Copper	mg/L	1.27E-02	6.23E-01	6.54E-03					ND					ND					ND				
Iron	mg/L	1.96E+01	4.70E+00	1.00E+00	J				3.04E-01					5.01E-01					1.44E-01	J			
Lead	mg/L	8.60E-03	1.50E-02	1.32E-03	B				ND					ND					ND				
Magnesium	mg/L	1.10E+01	NA	8.20E+01	J				1.01E+01					1.03E+01					9.51E+00	J			
Manganese	mg/L	5.65E-01	6.40E-01	8.00E-02	J				4.40E-03	J				6.20E-03	J				2.00E-03	J			
Potassium	mg/L	2.56E+00	NA	5.30E+01	J				1.56E+00	J				1.86E+00	J				1.73E+00	J			
Selenium	mg/L	NA	7.82E-02	5.00E-03	B				2.40E-03	B				ND					2.10E-03	B			
Silver	mg/L	NA	7.90E-02	1.00E-05					ND					ND					ND				
Sodium	mg/L	3.44E+00	NA	6.80E+02	J				3.36E+00	J				3.88E+00	J	YES			3.60E+00	J	YES		
Vanadium	mg/L	1.52E-02	7.90E-02	1.90E-02	B				3.70E-03	B				5.10E-03	B				2.50E-03	B			
Zinc	mg/L	4.03E-02	4.65E+00	5.89E-02					ND					ND					ND				
SEMIVOLATILE ORGANIC COMPOUNDS																							
Phenol	mg/L	NA	9.06E+00	2.56E-01					ND					ND					ND				

Table 5-6

Surface Water Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-SW/SD08					PPMP-75-SW/SD09					PPMP-75-SW/SD10				
				Sample Number	KJ2009					KJ2010					KJ2011				
				Sample Date	25-Jan-99					25-Jan-99					25-Jan-99				
Parameter	Units	BKG[a]	SSSL[b]	ESV[b]	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
METALS																			
Aluminum	mg/L	5.26E+00	1.53E+01	8.70E-02	8.00E-01				YES	6.88E-01				YES	4.85E-01				YES
Arsenic	mg/L	2.10E-03	7.30E-04	1.90E-01	ND					ND					ND				
Barium	mg/L	7.53E-02	1.10E+00	3.90E-03	4.25E-02	J			YES	3.21E-02	J			YES	7.09E-02	J			YES
Beryllium	mg/L	3.00E-04	1.75E-02	5.30E-04	1.20E-04	B				1.50E-04	B				ND				
Cadmium	mg/L	1.10E-03	6.80E-03	6.60E-04	ND					ND					ND				
Calcium	mg/L	2.52E+01	NA	1.16E+02	3.93E+01		YES			2.11E+01					3.89E+01		YES		
Chromium	mg/L	1.11E-02	4.08E-02	1.10E-02	1.30E-03	B				1.50E-03	B				1.10E-03	B			
Cobalt	mg/L	NA	9.31E-01	3.00E-03	ND					ND					ND				
Copper	mg/L	1.27E-02	6.23E-01	6.54E-03	1.90E-03	J				1.30E-03	J				1.70E-03	J			
Iron	mg/L	1.96E+01	4.70E+00	1.00E+00	7.97E-01					8.58E-01					4.35E-01				
Lead	mg/L	8.60E-03	1.50E-02	1.32E-03	2.90E-03	B			YES	1.90E-03	B			YES	8.80E-03		YES		YES
Magnesium	mg/L	1.10E+01	NA	8.20E+01	8.46E+00					5.55E+00					6.25E+00				
Manganese	mg/L	5.65E-01	6.40E-01	8.00E-02	2.57E-02					2.95E-02					3.60E-03	J			
Potassium	mg/L	2.56E+00	NA	5.30E+01	1.79E+00	J				1.91E+00	J				2.01E+00	J			
Selenium	mg/L	NA	7.82E-02	5.00E-03	3.20E-03	B				ND					ND				
Silver	mg/L	NA	7.90E-02	1.00E-05	ND					ND					ND				
Sodium	mg/L	3.44E+00	NA	6.80E+02	1.77E+00	J				1.65E+00	J				1.50E+00	J			
Vanadium	mg/L	1.52E-02	7.90E-02	1.90E-02	2.40E-03	B				2.50E-03	B				ND				
Zinc	mg/L	4.03E-02	4.65E+00	5.89E-02	8.50E-03	J				8.50E-03	J				1.92E-02	J			
SEMIVOLATILE ORGANIC COMPOUNDS																			
Phenol	mg/L	NA	9.06E+00	2.56E-01	ND					ND					ND				

Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods.

[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 site user 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 was positively identified; reported value is the estimated concentration.

mg/L - Milligrams per liter.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 5-7

Sediment Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	FTP-77					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	FTP-77-SW/SD02					PPMP-75-SW/SD01					PPMP-75-SW/SD02					PPMP-75-SW/SD03				
				Sample Number	HK1002					KJ1001					KJ1002					KJ1003				
				Sample Date	26-Jan-99					25-Jan-99					25-Jan-99					25-Jan-99				
				Sample Depth	0- .5					0- .5					0- .5					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	8.59E+03	1.15E+06	NA	4.71E+03					7.56E+03	J				8.05E+03	J				9.90E+03	J	YES		
Antimony	mg/kg	7.30E-01	4.22E+02	1.20E+01	1.20E+00	J	YES			6.40E-01	J				6.40E-01	J				4.90E-01	J			
Arsenic	mg/kg	1.13E+01	5.58E+01	7.24E+00	1.02E+01				YES	3.11E+01		YES		YES	1.10E+01				YES	1.00E+01				YES
Barium	mg/kg	9.89E+01	8.36E+04	NA	4.16E+01					1.43E+02		YES			4.04E+01					7.81E+01				
Beryllium	mg/kg	9.70E-01	1.50E+02	NA	7.40E-01					8.20E-01					8.50E-01					9.00E-01				
Cadmium	mg/kg	4.30E-01	1.71E+02	1.00E+00	ND					8.40E-01		YES			4.80E-01	J	YES			6.30E-01	J	YES		
Calcium	mg/kg	1.11E+03	NA	NA	1.30E+04	J	YES			3.39E+03	J	YES			7.72E+03	J	YES			8.01E+03	J	YES		
Chromium	mg/kg	3.12E+01	2.79E+03	5.23E+01	4.53E+01	J	YES			1.57E+01					1.78E+01					1.84E+01				
Cobalt	mg/kg	1.10E+01	6.72E+04	5.00E+01	1.47E+01		YES			1.42E+01		YES			9.80E+00					1.42E+01		YES		
Copper	mg/kg	1.71E+01	4.74E+04	1.87E+01	1.49E+01	J				2.74E+01		YES		YES	1.91E+01		YES		YES	2.87E+01		YES		YES
Iron	mg/kg	3.53E+04	3.59E+05	NA	3.18E+04	J				3.11E+04	J				3.63E+04	J	YES			3.44E+04	J			
Lead	mg/kg	3.78E+01	4.00E+02	3.02E+01	2.24E+01					4.38E+01	J	YES		YES	4.43E+01	J	YES		YES	9.43E+01	J	YES		YES
Magnesium	mg/kg	9.06E+02	NA	NA	7.75E+03	J	YES			2.81E+03	J	YES			3.37E+03	J	YES			6.66E+03	J	YES		
Manganese	mg/kg	7.12E+02	4.38E+04	NA	5.84E+02					4.36E+02	J				4.30E+02	J				5.52E+02	J			
Mercury	mg/kg	1.10E-01	2.99E+02	1.30E-01	ND					7.00E-02	J				5.00E-02	J				4.00E-02	J			
Nickel	mg/kg	1.30E+01	1.76E+04	1.59E+01	9.30E+00					2.46E+01		YES		YES	1.54E+01		YES			2.22E+01		YES		YES
Potassium	mg/kg	1.01E+03	NA	NA	2.45E+02	J				5.28E+02	J				3.19E+02	J				4.30E+02	J			
Selenium	mg/kg	7.20E-01	5.96E+03	NA	1.40E+00		YES			1.70E+00		YES			9.10E-01		YES			9.30E-01		YES		
Silver	mg/kg	3.20E-01	6.07E+03	2.00E+00	ND					7.00E-02	J				1.20E-01	J				1.10E-01	J			
Sodium	mg/kg	6.92E+02	NA	NA	3.45E+01	B				6.12E+01	B				6.66E+01	B				8.85E+01	B			
Thallium	mg/kg	1.30E-01	7.78E+01	NA	ND					5.90E-01	J	YES			ND					ND				
Vanadium	mg/kg	4.09E+01	4.83E+03	NA	2.75E+01					2.20E+01					2.59E+01					2.84E+01				
Zinc	mg/kg	5.27E+01	3.44E+05	1.24E+02	7.90E+01	J	YES			1.31E+02	J	YES		YES	1.81E+02	J	YES		YES	1.52E+02	J	YES		YES
VOLATILE ORGANIC COMPOUNDS																								
Acetone	mg/kg	NA	1.03E+05	4.53E-01	ND					ND					ND					ND				
Bromomethane	mg/kg	NA	1.43E+03	NA	ND					ND					ND					1.70E-03	B			
Methylene chloride	mg/kg	NA	9.84E+03	1.26E+00	3.60E-03	B				2.50E-03	B				2.30E-03	B				2.80E-03	B			

Table 5-7

Sediment Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	FTP-77					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	FTP-77-SW/SD02					PPMP-75-SW/SD01					PPMP-75-SW/SD02					PPMP-75-SW/SD03				
				Sample Number	HK1002					KJ1001					KJ1002					KJ1003				
				Sample Date	26-Jan-99					25-Jan-99					25-Jan-99					25-Jan-99				
				Sample Depth	0- .5					0- .5					0- .5					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	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																								
Acenaphthene	mg/kg	NA	5.59E+04	3.30E-01	ND					ND					ND					5.80E-02	J			
Anthracene	mg/kg	NA	2.99E+05	3.30E-01	ND					ND					ND					1.10E-01	J			
Benzo(a)anthracene	mg/kg	NA	8.93E+01	3.30E-01	ND					9.60E-02	J				1.10E-01	J				4.10E-01	J			YES
Benzo(a)pyrene	mg/kg	NA	8.93E+00	3.30E-01	ND					1.00E-01	J				1.10E-01	J				4.90E-01	J			YES
Benzo(b)fluoranthene	mg/kg	NA	8.93E+01	6.55E-01	5.50E-02	J				2.60E-01	J				1.80E-01	J				6.60E-01	J			YES
Benzo(ghi)perylene	mg/kg	NA	2.79E+04	6.55E-01	ND					8.90E-02	J				9.20E-02	J				3.90E-01	J			
Benzo(k)fluoranthene	mg/kg	NA	8.93E+02	6.55E-01	ND					9.70E-02	J				6.90E-02	J				2.60E-01	J			
Butyl benzyl phthalate	mg/kg	NA	2.17E+05	4.19E+00	ND					ND					ND					ND				
Carbazole	mg/kg	NA	3.26E+03	NA	ND					ND					ND					1.70E-01	J			
Chrysene	mg/kg	NA	9.79E+03	3.30E-01	ND					1.90E-01	J				1.50E-01	J				5.40E-01	J			YES
Dibenz(a,h)anthracene	mg/kg	NA	9.79E+00	3.30E-01	ND					ND					ND					7.70E-02	J			
Dibenzofuran	mg/kg	NA	3.73E+03	1.52E+00	ND					ND					ND					5.90E-02	J			
Fluoranthene	mg/kg	NA	3.73E+04	3.30E-01	ND					1.60E-01	J				3.50E-01	J			YES	1.50E+00	J			YES
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.93E+01	6.55E-01	ND					8.70E-02	J				7.80E-02	J				3.70E-01	J			
Phenanthrene	mg/kg	NA	2.79E+05	3.30E-01	ND					ND					2.30E-01	J				1.10E+00	J			YES
Pyrene	mg/kg	NA	3.06E+04	3.30E-01	ND					1.50E-01	J				2.50E-01	J				1.00E+00	J			YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	5.41E+03	1.82E-01	6.10E-02	B				ND					ND					ND				
PESTICIDES																								
4,4'-DDD	mg/kg	NA	2.35E+02	3.30E-03	3.10E-03	J				ND					ND					ND				
4,4'-DDE	mg/kg	NA	1.66E+02	3.30E-03	ND					ND					3.00E-03					2.60E-03				
4,4'-DDT	mg/kg	NA	1.66E+02	3.30E-03	2.50E-03	J				ND					4.40E-03				YES	5.30E-03				YES

Table 5-7

Sediment Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-SW/SD04					PPMP-75-SW/SD05					PPMP-75-SW/SD06					PPMP-75-SW/SD07				
				Sample Number	KJ1004					KJ1005					KJ1008					KJ1009				
				Sample Date	25-Jan-99					25-Jan-99					25-Jan-99					25-Jan-99				
				Sample Depth	0- .5					0- .5					0- .5					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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	8.59E+03	1.15E+06	NA	1.21E+04	J	YES			1.20E+04	J	YES			9.69E+03	J	YES			6.95E+03	J			
Antimony	mg/kg	7.30E-01	4.22E+02	1.20E+01	6.10E-01	J				5.20E-01	J				8.30E-01	J	YES			5.50E-01	J			
Arsenic	mg/kg	1.13E+01	5.58E+01	7.24E+00	9.80E+00				YES	1.50E+01		YES		YES	1.48E+01		YES		YES	8.10E+00				YES
Barium	mg/kg	9.89E+01	8.36E+04	NA	6.36E+01					6.08E+01					1.19E+02		YES			5.14E+01				
Beryllium	mg/kg	9.70E-01	1.50E+02	NA	1.30E+00		YES			1.20E+00		YES			1.40E+00		YES			8.40E-01				
Cadmium	mg/kg	4.30E-01	1.71E+02	1.00E+00	4.60E-01	J	YES			5.00E-01	J	YES			5.10E-01	J	YES			1.40E-01	J			
Calcium	mg/kg	1.11E+03	NA	NA	5.69E+03	J	YES			1.83E+03	J	YES			2.41E+03	J	YES			1.62E+03	J	YES		
Chromium	mg/kg	3.12E+01	2.79E+03	5.23E+01	1.98E+01					2.14E+01					2.68E+01					2.08E+01				
Cobalt	mg/kg	1.10E+01	6.72E+04	5.00E+01	1.37E+01		YES			1.64E+01		YES			2.75E+01		YES			8.30E+00				
Copper	mg/kg	1.71E+01	4.74E+04	1.87E+01	2.56E+01		YES		YES	3.68E+01		YES		YES	1.59E+01					1.13E+01				
Iron	mg/kg	3.53E+04	3.59E+05	NA	3.69E+04	J	YES			4.61E+04	J	YES			5.32E+04	J	YES			2.90E+04	J			
Lead	mg/kg	3.78E+01	4.00E+02	3.02E+01	6.31E+01	J	YES		YES	6.42E+01	J	YES		YES	4.61E+01	J	YES		YES	2.36E+01	J			
Magnesium	mg/kg	9.06E+02	NA	NA	4.12E+03	J	YES			3.86E+03	J	YES			1.73E+03	J	YES			1.33E+03	J	YES		
Manganese	mg/kg	7.12E+02	4.38E+04	NA	2.90E+02	J				1.46E+02	J				1.75E+03	J	YES			4.17E+02	J			
Mercury	mg/kg	1.10E-01	2.99E+02	1.30E-01	6.00E-02	J				1.00E-01	J				4.00E-02	J				4.00E-02	J			
Nickel	mg/kg	1.30E+01	1.76E+04	1.59E+01	2.22E+01		YES		YES	2.92E+01		YES		YES	1.05E+01					8.70E+00				
Potassium	mg/kg	1.01E+03	NA	NA	5.86E+02	J				4.15E+02	J				4.20E+02	J				3.35E+02	J			
Selenium	mg/kg	7.20E-01	5.96E+03	NA	1.20E+00		YES			1.50E+00		YES			1.90E+00		YES			1.10E+00		YES		
Silver	mg/kg	3.20E-01	6.07E+03	2.00E+00	9.00E-02	J				ND					6.00E-02	J				ND				
Sodium	mg/kg	6.92E+02	NA	NA	8.75E+01	B				5.90E+01	B				4.36E+01	B				4.29E+01	B			
Thallium	mg/kg	1.30E-01	7.78E+01	NA	ND					ND					ND					ND				
Vanadium	mg/kg	4.09E+01	4.83E+03	NA	3.25E+01					3.51E+01					4.91E+01		YES			2.93E+01				
Zinc	mg/kg	5.27E+01	3.44E+05	1.24E+02	1.25E+02	J	YES		YES	1.10E+02	J	YES			3.82E+01	J				3.33E+01	J			
VOLATILE ORGANIC COMPOUNDS																								
Acetone	mg/kg	NA	1.03E+05	4.53E-01	ND					ND					ND					ND				
Bromomethane	mg/kg	NA	1.43E+03	NA	ND					ND					ND					ND				
Methylene chloride	mg/kg	NA	9.84E+03	1.26E+00	3.00E-03	B				2.70E-03	B				2.00E-03	B				2.40E-03	B			

Table 5-7

Sediment Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-SW/SD04					PPMP-75-SW/SD05					PPMP-75-SW/SD06					PPMP-75-SW/SD07				
				Sample Number	KJ1004					KJ1005					KJ1008					KJ1009				
				Sample Date	25-Jan-99					25-Jan-99					25-Jan-99					25-Jan-99				
				Sample Depth	0- .5					0- .5					0- .5					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	Result	Qual	>BKG	>SSSL	>ESV
SEMIVOLATILE ORGANIC COMPOUNDS																								
Acenaphthene	mg/kg	NA	5.59E+04	3.30E-01	ND					ND					ND					ND				
Anthracene	mg/kg	NA	2.99E+05	3.30E-01	ND					ND					ND					ND				
Benzo(a)anthracene	mg/kg	NA	8.93E+01	3.30E-01	9.90E-02	J				3.40E-01	J			YES	ND					ND				
Benzo(a)pyrene	mg/kg	NA	8.93E+00	3.30E-01	1.30E-01	J				3.80E-01	J			YES	ND					ND				
Benzo(b)fluoranthene	mg/kg	NA	8.93E+01	6.55E-01	2.30E-01	J				6.60E-01				YES	ND					ND				
Benzo(ghi)perylene	mg/kg	NA	2.79E+04	6.55E-01	7.50E-02	J				2.10E-01	J				ND					ND				
Benzo(k)fluoranthene	mg/kg	NA	8.93E+02	6.55E-01	7.00E-02	J				2.50E-01	J				ND					ND				
Butyl benzyl phthalate	mg/kg	NA	2.17E+05	4.19E+00	ND					ND					ND					ND				
Carbazole	mg/kg	NA	3.26E+03	NA	ND					5.30E-02	J				ND					ND				
Chrysene	mg/kg	NA	9.79E+03	3.30E-01	1.60E-01	J				4.90E-01				YES	ND					ND				
Dibenz(a,h)anthracene	mg/kg	NA	9.79E+00	3.30E-01	ND					ND					ND					ND				
Dibenzofuran	mg/kg	NA	3.73E+03	1.52E+00	ND					ND					ND					ND				
Fluoranthene	mg/kg	NA	3.73E+04	3.30E-01	3.70E-01	J			YES	1.30E+00				YES	ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.93E+01	6.55E-01	6.60E-02	J				1.90E-01	J				ND					ND				
Phenanthrene	mg/kg	NA	2.79E+05	3.30E-01	2.20E-01	J				7.70E-01	J			YES	ND					ND				
Pyrene	mg/kg	NA	3.06E+04	3.30E-01	2.80E-01	J				9.90E-01	J			YES	ND					ND				
bis(2-Ethylhexyl)phthalate	mg/kg	NA	5.41E+03	1.82E-01	ND					ND					ND					ND				
PESTICIDES																								
4,4'-DDD	mg/kg	NA	2.35E+02	3.30E-03	ND					ND					ND					ND				
4,4'-DDE	mg/kg	NA	1.66E+02	3.30E-03	ND					5.60E-03	J			YES	ND					ND				
4,4'-DDT	mg/kg	NA	1.66E+02	3.30E-03	ND					ND					ND					3.00E-03				

Table 5-7

Sediment Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-SW/SD08					PPMP-75-SW/SD09					PPMP-75-SW/SD10				
				Sample Number	KJ1010					KJ1011					KJ1012				
				Sample Date	25-Jan-99					25-Jan-99					25-Jan-99				
				Sample Depth	0- .5					0- 2.5					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
METALS																			
Aluminum	mg/kg	8.59E+03	1.15E+06	NA	7.76E+03	J				6.02E+03	J				1.11E+04	J	YES		
Antimony	mg/kg	7.30E-01	4.22E+02	1.20E+01	5.00E-01	J				4.70E-01	J				5.80E-01	J			
Arsenic	mg/kg	1.13E+01	5.58E+01	7.24E+00	6.80E+00					3.70E+00					2.26E+01		YES		YES
Barium	mg/kg	9.89E+01	8.36E+04	NA	5.74E+01					4.52E+01					1.26E+02		YES		
Beryllium	mg/kg	9.70E-01	1.50E+02	NA	5.80E-01	J				4.80E-01	J				1.00E+00		YES		
Cadmium	mg/kg	4.30E-01	1.71E+02	1.00E+00	3.60E-01	J				1.10E-01	J				1.20E+00		YES		YES
Calcium	mg/kg	1.11E+03	NA	NA	3.12E+03	J	YES			1.29E+03	J	YES			2.20E+03	J	YES		
Chromium	mg/kg	3.12E+01	2.79E+03	5.23E+01	1.55E+01					1.05E+01					3.21E+01		YES		
Cobalt	mg/kg	1.10E+01	6.72E+04	5.00E+01	8.00E+00	J				6.30E+00	J				1.76E+01		YES		
Copper	mg/kg	1.71E+01	4.74E+04	1.87E+01	1.99E+01		YES		YES	1.37E+01					3.62E+01		YES		YES
Iron	mg/kg	3.53E+04	3.59E+05	NA	2.34E+04	J				1.39E+04	J				4.40E+04	J	YES		
Lead	mg/kg	3.78E+01	4.00E+02	3.02E+01	6.63E+01	J	YES		YES	2.34E+01	J				1.72E+02	J	YES		YES
Magnesium	mg/kg	9.06E+02	NA	NA	1.75E+03	J	YES			7.84E+02	J				4.20E+03	J	YES		
Manganese	mg/kg	7.12E+02	4.38E+04	NA	1.53E+02	J				5.25E+01	J				3.06E+02	J			
Mercury	mg/kg	1.10E-01	2.99E+02	1.30E-01	9.00E-02	J				7.00E-02	J				9.00E-02	J			
Nickel	mg/kg	1.30E+01	1.76E+04	1.59E+01	1.12E+01					7.60E+00					3.38E+01		YES		YES
Potassium	mg/kg	1.01E+03	NA	NA	5.54E+02	J				5.82E+02	J				4.77E+02	J			
Selenium	mg/kg	7.20E-01	5.96E+03	NA	9.00E-01	J	YES			8.60E-01		YES			1.70E+00		YES		
Silver	mg/kg	3.20E-01	6.07E+03	2.00E+00	8.00E-02	J				ND					ND				
Sodium	mg/kg	6.92E+02	NA	NA	7.38E+01	B				3.62E+01	B				4.64E+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	2.65E+01					1.84E+01					2.94E+01				
Zinc	mg/kg	5.27E+01	3.44E+05	1.24E+02	9.76E+01	J	YES			4.48E+01	J				4.09E+02	J	YES		YES
VOLATILE ORGANIC COMPOUNDS																			
Acetone	mg/kg	NA	1.03E+05	4.53E-01	ND					1.60E-02	J				ND				
Bromomethane	mg/kg	NA	1.43E+03	NA	2.90E-03	B				ND					ND				
Methylene chloride	mg/kg	NA	9.84E+03	1.26E+00	5.50E-03	B				2.40E-03	B				2.40E-03	B			

Table 5-7

Sediment Analytical Results
Former Ordnance Motor Repair Area, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7)
Fort McClellan, Calhoun County, Alabama

				Parcel	PPMP-75					PPMP-75					PPMP-75				
				Sample Location	PPMP-75-SW/SD08					PPMP-75-SW/SD09					PPMP-75-SW/SD10				
				Sample Number	KJ1010					KJ1011					KJ1012				
				Sample Date	25-Jan-99					25-Jan-99					25-Jan-99				
				Sample Depth	0- .5					0- 2.5					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																			
Acenaphthene	mg/kg	NA	5.59E+04	3.30E-01	ND					ND					ND				
Anthracene	mg/kg	NA	2.99E+05	3.30E-01	ND					7.50E-02	J				ND				
Benzo(a)anthracene	mg/kg	NA	8.93E+01	3.30E-01	ND					4.40E-01	J			YES	6.40E-02	J			
Benzo(a)pyrene	mg/kg	NA	8.93E+00	3.30E-01	ND					6.40E-01				YES	1.00E-01	J			
Benzo(b)fluoranthene	mg/kg	NA	8.93E+01	6.55E-01	ND					8.00E-01				YES	2.00E-01	J			
Benzo(ghi)perylene	mg/kg	NA	2.79E+04	6.55E-01	ND					4.00E-01	J				1.10E-01	J			
Benzo(k)fluoranthene	mg/kg	NA	8.93E+02	6.55E-01	ND					3.20E-01	J				6.70E-02	J			
Butyl benzyl phthalate	mg/kg	NA	2.17E+05	4.19E+00	2.30E-01	J				ND					ND				
Carbazole	mg/kg	NA	3.26E+03	NA	ND					ND					ND				
Chrysene	mg/kg	NA	9.79E+03	3.30E-01	ND					4.80E-01	J			YES	1.10E-01	J			
Dibenz(a,h)anthracene	mg/kg	NA	9.79E+00	3.30E-01	ND					1.10E-01	J				ND				
Dibenzofuran	mg/kg	NA	3.73E+03	1.52E+00	ND					ND					ND				
Fluoranthene	mg/kg	NA	3.73E+04	3.30E-01	ND					5.90E-01				YES	1.10E-01	J			
Indeno(1,2,3-cd)pyrene	mg/kg	NA	8.93E+01	6.55E-01	ND					3.70E-01	J				8.90E-02	J			
Phenanthrene	mg/kg	NA	2.79E+05	3.30E-01	ND					2.00E-01	J				ND				
Pyrene	mg/kg	NA	3.06E+04	3.30E-01	ND					5.30E-01	J			YES	1.00E-01	J			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	5.41E+03	1.82E-01	ND					ND					ND				
PESTICIDES																			
4,4'-DDD	mg/kg	NA	2.35E+02	3.30E-03	ND					ND					4.00E-03				YES
4,4'-DDE	mg/kg	NA	1.66E+02	3.30E-03	ND					4.50E-03				YES	1.30E-02				YES
4,4'-DDT	mg/kg	NA	1.66E+02	3.30E-03	ND					ND					3.40E-02	J			YES

Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods.

[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 site user 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 was positively identified; reported value is the estimated concentration.

mg/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

The following metals were detected at concentrations exceeding ESVs and background concentrations: aluminum (three locations), arsenic (thirteen locations), barium (nineteen locations), beryllium (twenty-seven locations), cadmium (three locations), cobalt (PPMP-75-GP33), copper (five locations), chromium (four locations), iron (four locations), lead (thirty-two locations), manganese (two locations), mercury (five locations), nickel (six locations), selenium (thirty-nine locations), and zinc (forty-three locations).

Volatile Organic Compounds. Twenty-two VOCs were detected in surface and depositional soil samples collected at the FOMRA. The methylene chloride results and the majority of the acetone and bromomethane results were flagged with a "B" data qualifier, signifying that these compounds were also detected in an associated laboratory or field blank sample. In addition, acetone, bromomethane, and/or methylene chloride were the only detected VOCs in thirty-five of the samples. Samples collected at locations PPMP-75-GP23, PPMP-75-GP04, and PPMP-75-GP22 contained seventeen, sixteen, and fifteen VOCs, respectively, of the twenty-two detected VOCs.

The VOC concentrations in surface and depositional soils were below SSSLs. The concentrations of seven VOCs (1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,2-dimethylbenzene, ethylbenzene, m,p-xylenes, naphthalene, and toluene) exceeded ESVs at one or both of two sample locations (PPMP-75-GP22 and PPMP-75-GP23). The naphthalene concentration also exceeded its ESV at one additional location (PPMP-75-GP04).

Semivolatile Organic Compounds. Twenty-five SVOCs, including sixteen PAH compounds, were detected in surface and depositional soil samples collected at the FOMRA. Several PAH compounds were detected at concentrations exceeding SSSLs, ESVs, and PAH background screening values at several surface soil sample locations. The samples with the elevated PAH concentrations were collected immediately adjacent to or beneath asphalt, which likely leached these PAHs into the surrounding soils.

With the exception of bis(2-ethylhexyl)phthalate at one location (PPMP-75-GP41), the concentrations of the non-PAH SVOCs (2,4-dinitrotoluene, 2-methylnaphthalene, 4-nitroaniline, butyl benzyl phthalate, carbazole, di-n-butyl phthalate, dibenzofuran, isophorone, and bis[2-ethylhexyl]phthalate) were below SSSLs and ESVs. The bis(2-ethylhexyl)phthalate

concentration at PPMP-75-GP41 was below the SSSL but exceeded the ESV. Bis(2-ethylhexyl)phthalate is a common sample contaminant.

Pesticides. Thirteen pesticides (4,4'-DDD, 4,4'-DDE, 4,4'-DDT, aldrin, endosulfan sulfate, endrin, endrin aldehyde, endrin ketone, heptachlor, methoxychlor, alpha-BHC, beta-BHC, and delta-BHC) were detected in surface and depositional soil samples collected at the FOMRA. Samples collected at locations PPMP-75-GP32 and PPMP-75-GP52 each contained six of the thirteen detected pesticides.

The pesticide concentrations in surface and depositional soils were below SSSLs. The following pesticides were detected at concentrations exceeding ESVs: aldrin (three locations), alpha-BHC (two locations), beta-BHC (PPMP-75-GP61), 4,4'-DDD (seven locations), 4,4'-DDE (seventeen locations), 4,4'-DDT (thirty-three locations), endrin (eight locations), endrin aldehyde (PPMP-75-GP45), endrin ketone (six locations), and methoxychlor (twelve locations).

Herbicides. The herbicide 2,2-dichloropropanoic acid was detected in one surface soil sample (PPMP-75-GP08) at a concentration (1.2 mg/kg) below its SSSL but exceeding its ESV (0.1 mg/kg).

PCBs. PCB Aroclor 1260 was detected in one depositional soil sample (PPMP-75-DEP05) at a concentration (0.045 mg/kg) below its SSSL but exceeding its ESV (0.02 mg/kg).

5.2 Subsurface Soil Analytical Results

Seventy-three subsurface soil samples were collected for chemical analysis at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7). Subsurface soil samples were collected at depths greater than 1-foot bgs at the locations shown on Figure 3-1. Analytical results were compared to residential human health SSSLs and metals background screening values, as presented in Table 5-4.

Metals. Twenty-three metals were detected in subsurface soil samples collected at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7). The concentrations of six metals (aluminum, arsenic, chromium, iron, manganese, and thallium) exceeded SSSLs. Of these metals, aluminum (forty-one locations), arsenic (PPMP-75-GP37), chromium (five locations), iron (seven locations), manganese (four locations), and thallium (PPMP-75-GP46) concentrations also exceeded their respective background concentrations. However, with the exception of iron in one sample

(PPMP-75-GP46), these metals concentrations were within the range of background values determined by SAIC (1998) (Appendix H).

Volatile Organic Compounds. Sixteen VOCs, including 1,2,4-trimethylbenzene, 1,2-dimethylbenzene, 1,3,5-trimethylbenzene, 2-butanone, acetone, bromomethane, carbon disulfide, cumene, ethylbenzene, methylene chloride, naphthalene, toluene, trichlorofluoromethane, m,p-xylenes, n-butylbenzene, and n-propylbenzene, were detected in subsurface soil samples collected at the site. The methylene chloride results, twenty-two acetone results, and all but one of the bromomethane results were flagged with a "B" data qualifier signifying that these compounds were also detected in an associated laboratory or field blank sample. Acetone, bromomethane, and/or methylene chloride were the only detected VOCs in 50 of the 73 samples collected. Thirteen of the sixteen detected VOCs were present in the sample collected at PPMP-75-GP68.

The VOC concentrations in subsurface soils were below SSSLs.

Semivolatile Organic Compounds. Twenty-one SVOCs, including seventeen PAH compounds, were detected in subsurface soil samples collected at the site. SVOCs were not detected in forty-four of the subsurface soil samples, and di-n-butyl phthalate and/or bis(2-ethylhexyl)phthalate were the only detected SVOCs in nine additional samples. Sample locations PPMP-75-GP66, PPMP-75-GP65, and PPMP-75-GP05 contained nineteen, eighteen, and seventeen SVOCs, respectively, of the twenty-one detected SVOCs.

The concentrations of five PAHs (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-cd]pyrene) exceeded SSSLs at two subsurface soil sample locations (PPMP-75-GP05 and PPMP-75-GP65). Benzo(a)pyrene concentrations also exceeded the SSSL at seven additional subsurface soil sample locations.

Herbicides. The herbicide 2,2-dichloropropanoic acid was detected in three of the subsurface soil samples collected (PPMP-75-GP08, PPMP-75-GP09, and PPMP-75-GP10). The 2,2-dichloropropanoic acid concentrations were below the SSSL.

Pesticides. A total of eight pesticides (4,4'-DDE, 4,4'-DDT, aldrin, endrin, endrin ketone, heptachlor, methoxychlor, and delta-BHC) were detected in fifteen of the subsurface soil samples

collected. Four of the eight detected pesticides were present in the sample collected at PPMP-75-GP09. The pesticide concentrations in subsurface soils were below SSSLs.

5.3 Groundwater Analytical Results

Twenty-three groundwater samples were collected for chemical analysis at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), at the locations shown on Figure 3-1. Analytical results were compared to residential human health SSSLs and metals background screening values, as presented in Table 5-5.

Metals. Nineteen metals were detected in groundwater samples collected at the FOMRA. Sample locations PPMP-75-GP05 and PPMP-75-GP69 contained seventeen and thirteen metals, respectively, of the nineteen detected metals.

The concentrations of nine metals (aluminum, arsenic, barium, chromium, iron, manganese, nickel, thallium, and vanadium) exceeded SSSLs. Of these metals, aluminum (PPMP-75-GP05, PPMP-75-GP09, and PPMP-75-GP69), barium (PPMP-75-GP05), iron (PPMP-75-GP05 and PPMP-75-GP09), manganese (eight locations), thallium (PPMP-75-GP69), and vanadium (PPMP-75-GP05), also exceeded background concentrations. With the exception of manganese, however, the metals that exceeded SSSLs and background concentrations were present in three samples (PPMP-75-GP05, PPMP-75-GP09, and PPMP-75-GP69) that had high turbidity at the time of sample collection. As shown in Table 3-6 and in the purge records in Appendix A, the groundwater samples collected at sample locations PPMP-75-GP05, PPMP-75-GP09, and PPMP-75-GP69 had markedly higher turbidity readings than the other sample locations. To evaluate the effects of turbidity on metals concentrations in groundwater at FTMC, IT resampled five wells that previously had high turbidity using a low-flow groundwater purging and sampling technique to reduce turbidity to less than 10 NTUs. The resampling effort demonstrated that the concentrations of most metals in the lower turbidity samples were significantly lower than in the higher turbidity samples (IT, 2000c) (Appendix I). Consequently, the elevated metals results in the groundwater samples collected at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), are likely the result of high turbidity.

Excluding the high turbidity samples, only manganese concentrations exceeded its SSSL and respective background concentration (five locations). However, the manganese concentrations were within the range of background values determined by SAIC (1998) (Appendix H).

Volatile Organic Compounds. Seven VOCs, including 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, acetone, chloroform, methylene chloride, naphthalene, and toluene, were detected in groundwater samples collected at the FOMRA. VOCs were not detected at seventeen of the sample locations. With the exception of acetone, which was detected in two samples, each of the detected VOCs was present in only one of the samples. Sample location PPMP-75-GP30 contained three of the seven detected VOCs; none of the remaining sample locations contained more than one detected VOC.

The VOC concentrations in groundwater were below SSSLs.

Semivolatile Organic Compounds. The SVOC bis(2-ethylhexyl)phthalate was detected at one sample location (PPMP-75-GP71) at a concentration below its SSSL.

Herbicides. The herbicide 2,2-dichloropropanoic acid was detected in two samples (PPMP-75-GP09 and PPMP-75-GP74) at concentrations below its SSSL.

Pesticides. The pesticide endosulfan sulfate was detected in one sample (PPMP-75-GP23) at a concentration below its SSSL.

5.4 Surface Water Analytical Results

Eleven surface water samples were collected at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7) at the locations shown on Figure 3-1. Analytical results were compared to recreational site user human health SSSLs, ESVs, and metals background screening values, as presented in Table 5-6.

Metals. Nineteen metals were detected in surface water samples collected at the FOMRA. The beryllium, selenium, and all but one each of the cadmium, chromium, and vanadium results were flagged with a "B" data qualifier signifying that these metals were also detected in an associated laboratory or field blank sample. Eighteen detected metals were present in the sample collected at PPMP-75-SW/SD01.

The concentration of arsenic exceeded its SSSL and background concentration in one sample (PPMP-75-SW/SD01). However, the arsenic concentration was within the range of background values determined by SAIC (1998) (Appendix H).

The concentrations of seven metals (aluminum, barium, cobalt, copper, iron, lead, and silver) exceeded ESVs. Of these metals, only barium (PPMP-75-SW/SD01) and lead (PPMP-75-SW/SD01 and PPMP-75-SW/SD10) concentrations also exceeded background. The barium and lead results were within the range of background values determined by SAIC (1998) (Appendix H). A background value for silver was not available.

Volatile Organic Compounds. VOCs were not detected in the surface water samples collected at the site.

Semivolatile Organic Compounds. Phenol was detected in one surface water sample (PPMP-75-SW/SD02) at a concentration below its SSSL and ESV.

Pesticides. Pesticides were not detected in the surface water samples collected at the site.

5.5 Sediment Analytical Results

Eleven sediment samples were collected at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7). Samples were collected from the upper 0.5-foot of sediment at the sample locations shown on Figure 3-1. Analytical results were compared to recreational site user human health SSSLs, ESVs, and metals background screening values, as presented in Table 5-7.

Metals. Twenty-three metals were detected in sediment samples collected at the FOMRA. Sample location PPMP-75-SW/SD01 contained each of the detected metals. The concentrations of the detected metals in sediments were below SSSLs.

The concentrations of arsenic (at four locations), cadmium (one location), copper (seven locations), lead (eight locations), nickel (five locations), and zinc (five locations) exceeded ESVs and background concentrations.

Volatile Organic Compounds. Three VOCs (acetone, bromomethane, and methylene chloride) were detected in sediment samples collected at the FOMRA. Methylene chloride was detected in each of the samples; however, the results were flagged with a "B" data qualifier signifying that methylene chloride was also detected in an associated laboratory or field blank sample. Acetone was detected at one location (PPMP-75-SW/SD09) and bromomethane was detected at two locations (PPMP-75-SW/SD03 and PPMP-75-SW/SD08). One bromomethane result was flagged with a "B" data qualifier.

The VOC concentrations in sediments were below SSSLs and ESVs.

Semivolatile Organic Compounds. Seventeen SVOCs, including thirteen PAH compounds, were detected in sediment samples collected at the FOMRA. The majority of the SVOC results were flagged with a "J" data qualifier signifying that the compounds were positively identified but the concentrations were estimated. Sample locations PPMP-75-SW/SD03, PPMP-75-SW/SD09, and PPMP-75-SW/SD05 contained fifteen, twelve, and eleven SVOCs, respectively, of the seventeen detected SVOCs.

The SVOC concentrations in sediments were below SSSLs. The concentrations of seven PAHs (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, chrysene, fluoranthene, phenanthrene, and pyrene) exceeded ESVs at two sample locations (PPMP-75-SW/SD03 and PPMP-75-SW/SD05). Six of these seven PAHs (except phenanthrene) were detected at PPMP-75-SW/SD09. Fluoranthene concentrations also exceeded the ESV at two additional locations (PPMP-75-SW/SD02 and PPMP-75-SW/SD04).

Pesticides. Three pesticides, (4,4'-DDD, 4,4'-DDE, and 4,4'-DDT) were detected in sediment samples collected at the FOMRA. Each of the detected pesticides was present in the sample collected at PPMP-75-SW/SD10.

The pesticide concentrations in sediments were below SSSLs. The concentrations of 4,4'-DDD (at PPMP-75-SW/SD10), 4,4'-DDE (three locations), and 4,4'-DDT (three locations) exceeded ESVs.

Total Organic Carbon. The sediment samples were analyzed for TOC content. TOC concentrations in the sediment samples ranged from 5,660 mg/kg to 63,900 mg/kg, as summarized in Appendix E.

Grain Size. The results of grain size analysis for sediment samples are included in Appendix E.

6.0 Summary, Conclusions, and Recommendations

IT, under contract with the USACE, completed an SI at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), at FTMC in Calhoun County, Alabama. The SI was conducted to determine whether chemical constituents are present at the FOMRA at concentrations that present an unacceptable risk to human health or the environment. The SI at the FOMRA consisted of the sampling and analysis of 60 surface soil samples, 5 depositional soil samples, 73 subsurface soil samples, 23 groundwater samples, and 11 surface water and sediment samples. In addition, 23 temporary monitoring wells were installed in the residuum groundwater zone to facilitate groundwater sample collection and provide site-specific geological and hydrogeological characterization information.

Chemical analysis of samples collected at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7), indicates that metals, VOCs, SVOCs, and pesticides have been detected in the various site media. In addition, one herbicide was detected in soils and groundwater, and one PCB compound was detected in one surface soil sample. Analytical results were compared to the human health SSSLs and ESVs for FTMC. The SSSLs and ESVs were developed by IT for human health and ecological risk evaluations as part of the ongoing SIs being performed under the BRAC Environmental Restoration Program at FTMC. Additionally, metals concentrations exceeding SSSLs and ESVs were compared to media-specific background screening values (SAIC, 1998), and PAH concentrations exceeding SSSLs and ESVs in surface and depositional soils were compared to PAH background screening values (IT, 2000b).

The potential threat to human receptors is expected to be low. Although the site is projected for industrial reuse, the soils and groundwater data were screened against residential human health SSSLs to evaluate the site for possible unrestricted land reuse. In soils, four metals (barium [at two surface locations], chromium [one surface location], iron [one surface location and one subsurface location], and lead [two surface locations]) were detected at concentrations exceeding residential human health SSSLs, background concentrations, and the range of background values (SAIC, 1998). Confirmation sampling was performed at the request of EPA and ADEM at three surface soil sample locations with elevated barium or lead concentrations. Based on the results of the confirmation samples, the barium and lead results were determined to be isolated "hot spots" and not representative of widespread conditions.

Several PAH compounds were detected at concentrations exceeding SSSLs and PAH background screening values in several surface soil samples. In addition, five PAH compounds exceeded SSSLs in two subsurface soil samples. However, based on the spatial distribution of PAHs at the site, the elevated PAHs appear to be the result of anthropogenic activities (e.g., asphalt pavement, industrial emissions) and not related to site operations.

In groundwater, six metals (aluminum, barium, iron, manganese, vanadium, and thallium) were detected at concentrations exceeding residential human health SSSLs and background concentrations. However, the majority of these metals were present in three samples that had high turbidity at the time of sample collection that caused the elevated results. Excluding the high turbidity samples, only one metal (manganese) was detected at concentrations exceeding the SSSL and the background concentration in groundwater. The manganese concentrations were within the range of background values determined by SAIC (1998).

Metals, VOCs, SVOCs, and pesticides were detected in site media (primarily surface and depositional soils) at concentrations exceeding ESVs. In addition, one herbicide and one PCB compound were detected in one surface/depositional soil sample each at concentrations exceeding ESVs. However, the potential impact to ecological receptors is expected to be minimal based on the existing viable habitat and site conditions. The site is a well-developed industrialized area, consisting of buildings, paved roads/areas, and railroad tracks interspersed with limited grassed areas, and is projected for continued industrial land use (FTMC, 1997). Viable ecological habitat is presently limited and is not expected to increase in the future land use scenario. Consequently, the potential threat to ecological receptors is expected to be low.

Based on the results of the SI, past operations at the FOMRA do not appear to have adversely impacted the environment. The metals and chemical constituents detected in site media do not pose an unacceptable risk to human health and the environment. Therefore, IT recommends "No Further Action" and unrestricted land reuse at the FOMRA, Parcels 75(7), 5(7), 6(7), 41(7), and 42(7).

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ATTACHMENT 1

LIST OF ABBREVIATIONS AND ACRONYMS

List of Abbreviations and Acronyms

2,4-D	2,4-dichlorophenoxyacetic acid
2,4,5-T	2,4,5-trichlorophenoxyacetic acid
2,4,5-TP	silvex
3D	3D International Environmental Group
Abs	skin absorption
Amsl	above mean sea level
AC	hydrogen cyanide
AcB2	Anniston and Allen gravelly loams, 2 to 6 percent slopes, eroded
AcC2	Anniston and Allen gravelly loams, 6 to 10 percent slopes, eroded
AcD2	Anniston and Allen gravelly loams, 10 to 15 percent slopes, eroded
AcE2	Anniston and Allen gravelly loams, 15 to 25 percent slopes, eroded
ACGIH	American Conference of Governmental Industrial Hygienists
ADEM	Alabama Department of Environmental Management
AEC	U.S. Army Environmental Center
AEL	airborne exposure limit
AHA	ammunition holding area
AL	Alabama
amb.	amber
ANAD	Anniston Army Depot
AOC	area of concern
APT	armor-piercing tracer
ARAR	applicable or relevant and appropriate requirement
AREE	area requiring environmental evaluation
ASP	Ammunition Supply Point
ASR	Archives Search Report
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
ATV	all-terrain vehicle
AWWSB	Anniston Water Works and Sewer Board
'B'	Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero)
BCF	blank correction factor
BCT	BRAC Cleanup Team
BEHP	bis(2-ethylhexyl)phthalate
BFB	bromofluorobenzene
BFE	base flood elevation
BG	Bacillus globigii
bgs	below ground surface
BHC	betahexachlorocyclohexane
bkg	background
bls	below land surface
BOD	biological oxygen demand
BRAC	Base Realignment and Closure
Braun	Braun Intertec Corporation
BSC	background screening criterion
BTAG	Biological Technical Assistance Group
BTEX	benzene, toluene, ethyl benzene, and xylenes
BTOC	below top of casing
BTV	background threshold value
BW	biological warfare
BZ	breathing zone; 3-quinuclidinyl benzilate
C	ceiling limit value
Ca	carcinogen
CAB	chemical warfare agent breakdown products
CAMU	corrective action management unit
CCAL	continuing calibration
CCB	continuing calibration blank
CD	compact disc
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERFA	Community Environmental Response Facilitation Act
CESAS	Corps of Engineers South Atlantic Savannah
CG	carbonyl chloride (phosgene)
CFC	chlorofluorocarbon
ch	inorganic clays of high plasticity
CHPPM	U.S. Army Center for Health Promotion and Preventive Medicine
CK	cyanogen chloride
cl	inorganic clays of low to medium plasticity
Cl.	chlorinated
CLP	Contract Laboratory Program
CN	chloroacetophenone
CNB	chloroacetophenone, benzene, and carbon tetrachloride
CNS	chloroacetophenone, chloropicrin, and chloroform
Co-60	cobalt-60
COC	chain of custody; contaminant of concern
COE	Corps of Engineers
Con	skin or eye contact
COPC	contaminant of potential concern
COPEC	contaminant of potential environmental concern
CRL	certified reporting limit
CRZ	contamination reduction zone
Cs-137	cesium-137
CS	ortho-chlorobenzylidene-malononitrile
CSEM	conceptual site exposure model
ctr.	container
CWA	chemical warfare agent
CWM	chemical warfare material; clear, wide mouth
CX	dichloroformoxime
'D'	duplicate; dilution
DAF	dilution-attenuation factor
DANC	decontamination agent, non-corrosive
ºC	degrees Celsius
ºF	degrees Fahrenheit
DCE	dichloroethene
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethene
DDT	dichlorodiphenyltrichloroethane
DEH	Directorate of Engineering and Housing
DEP	depositional soil
DI	deionized
DIMP	di-isopropylmethylphosphonate
DMMP	dimethylmethylphosphonate
DOD	U.S. Department of Defense
DOJ	U.S. Department of Justice
DOT	U.S. Department of Transportation
DP	direct-push
DPDO	Defense Property Disposal Office
DPT	direct-push technology
DQO	data quality objective
DRMO	Defense Reutilization and Marketing Office
DRO	diesel range organics
DS	deep (subsurface) soil
DS2	Decontamination Solution Number 2
DWEL	drinking water equivalent level
E&E	Ecology and Environment, Inc.
EBS	environmental baseline survey
EE/CA	engineering evaluation and cost analysis
Elev.	elevation
EM	electromagnetic
EM31	Geonics Limited EM31 Terrain Conductivity Meter
EM61	Geonics Limited EM61 High-Resolution Metal Detector
EOD	explosive ordnance disposal
EODT	explosive ordnance disposal team
EPA	U.S. Environmental Protection Agency
EPC	exposure point concentration
EPIC	Environmental Photographic Interpretation Center
ER	equipment rinsate
ESE	Environmental Science and Engineering, Inc.
ESN	Environmental Services Network, Inc.
ESV	ecological screening value
Exp.	explosives
E-W	east to west
EZ	exclusion zone
FAR	Federal Acquisition Regulations
FB	field blank
FD	field duplicate
FedEx	Federal Express, Inc.
FEMA	Federal Emergency Management Agency
FFE	field flame expedient
Fil	filtered
Flt	filtered
FML	flexible membrane liner
FMP 1300	Former Motor Pool 1300
FOMRA	Former Ordnance Motor Repair Area
Foster Wheeler	Foster Wheeler Environmental Corporation

Frtn	fraction
FS	field split; feasibility study
FSP	field sampling plan
ft	feet
ft/ft	feet per foot
FTA	Fire Training Area
FTMC	Fort McClellan
FTRRA	FTMC Reuse & Redevelopment Authority
g	gram
G-856	Geometrics, Inc. G-856 magnetometer
G-858G	Geometrics, Inc. G-858G magnetic gradiometer
gal	gallon
gal/min	gallons per minute
GB	sarin
gc	clay gravels; gravel-sand-clay mixtures
GC	gas chromatograph
GC/MS	gas chromatograph/mass spectrometer
GCR	geosynthetic clay liner
GFAA	graphite furnace atomic absorption
GIS	Geographic Information System
gm	silty gravels; gravel-sand-silt mixtures
gp	poorly graded gravels; gravel-sand mixtures
gpm	gallons per minute
GPR	ground-penetrating radar
GPS	global positioning system
GS	ground scar
GSA	General Services Administration; Geologic Survey of Alabama
GSBP	Ground Scar Boiler Plant
GSSI	Geophysical Survey Systems, Inc.
GST	ground stain
GW	groundwater
gw	well-graded gravels; gravel-sand mixtures
HA	hand auger
HCl	hydrochloric acid
HD	distilled mustard
HDPE	high-density polyethylene
Herb.	herbicides
HNO_3	nitric acid
hr	hour
H&S	health and safety
HSA	hollow-stem auger
HTRW	hazardous, toxic, and radioactive waste
‘I’	out of control, data rejected due to low recovery
ICAL	initial calibration
ICB	initial calibration blank
ICP	inductively-coupled plasma
ICRP	International Commission on Radiological Protection
ICS	interference check sample
ID	inside diameter
IDL	instrument detection limit
IDLH	immediately dangerous to life or health
IDM	investigative-derived media
IDW	investigation-derived waste
ILCR	incremental lifetime cancer risk
IMPA	isopropylmethyl phosphonic acid
IMR	Iron Mountain Road
in.	inch
Ing	ingestion
Inh	inhalation
IP	ionization potential
IPS	International Pipe Standard
IRDMIS	Installation Restoration Data Management Information System
ISCP	Installation Spill Contingency Plan
IT	IT Corporation
ITEMS	IT Environmental Management System ™
‘J’	estimated concentration
JeB2	Jefferson gravelly fine sandy loam, 2 to 6 percent slopes, eroded
JeC2	Jefferson gravelly fine sandy loam, 6 to 10 percent slopes, eroded
JfB	Jefferson stony fine sandy loam, 0 to 10 percent slopes have strong slopes
JPA	Joint Powers Authority
K	conductivity
L	lewisite; liter
LC_{50}	lethal concentration for 50 percent of population tested
LD_{50}	lethal dose for 50 percent of population tested
l	liter
LCS	laboratory control sample
LEL	lower explosive limit
LOAEL	lowest-observed-advserse-effects-level
LT	less than the certified reporting limit
LUC	land-use control
LUCAP	land-use control assurance plan
LUCIP	land-use control implementation plan
max	maximum
MCL	maximum contaminant level
MDC	maximum detected concentration
MDL	method detection limit
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mg/m^3	milligrams per cubic meter
mh	inorganic silts, micaceous or diatomaceous fine, sandy or silt soils
MHz	megahertz
µg/g	micrograms per gram
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
µmhos/cm	micromhos per centimeter
min	minimum
MINICAMS	miniature continuous air sampling system
ml	inorganic silts and very fine sands
mL	milliliter
mm	millimeter
MM	mounded material
MOGAS	motor vehicle gasoline
MPA	methyl phosphonic acid
MR	molasses residue
MS	matrix spike
mS/cm	millisiemens per centimeter
MSD	matrix spike duplicate
MTBE	methyl tertiary butyl ether
msl	mean sea level
MtD3	Montevallo shaly, silty clay loam, 10 to 40 percent slopes , severely eroded
mV	millivolts
MW	monitoring well
NA	not applicable; not available
NAD	North American Datum
NAD83	North American Datum of 1983
NAVD88	North American Vertical Datum of 1988
NCP	National Contingency Plan
ND	not detected
NE	no evidence; northeast
ne	not evaluated
NFA	No Further Action
ng/L	nanograms per liter
NGVD	National Geodetic Vertical Datum
NIC	notice of intended change
NIOSH	National Institute for Occupational Safety and Health
NPDES	National Pollutant Discharge Elimination System
No.	number
NOAA	National Oceanic and Atmospheric Administration
NOAEL	no-observed-adverse-effects-level
NR	not requested; not recorded
ns	nanosecond
N-S	north to south
NS	not surveyed
nT	nanotesla
NTU	nephelometric turbidity unit
nv	not validated
O&G	oil and grease
O&M	operating and maintenance
OD	outside diameter
OE	ordnance and explosives
oh	organic clays of medium to high plasticity
ol	organic silts and organic silty clays of low plasticity
OP	organophosphorus
ORP	oxidation-reduction potential

OSHA	Occupational Safety and Health Administration
OWS	oil/water separator
oz	ounce
PA	preliminary assessment
PAH	polynuclear aromatic hydrocarbon
Parsons	Parsons Engineering Science, Inc.
Pb	lead
PCB	polychlorinated biphenyl
PCE	perchloroethene
PCP	pentachlorophenol
PDS	Personnel Decontamination Station
PEL	permissible exposure limit
Pest.	pesticides
PFT	portable flamethrower
PG	professional geologist
PID	photoionization detector
PkA	Philo and Stendal soils local alluvium, 0 to 2 percent slopes
POL	petroleum, oils, and lubricants
PP	peristaltic pump
ppb	parts per billion
PPE	personal protective equipment
ppm	parts per million
PPMP	Print Plant Motor Pool
ppt	parts per thousand
PRG	preliminary remediation goal
PSSC	potential site-specific chemical
pt	peat or other highly organic silts
PVC	polyvinyl chloride
QA	quality assurance
QA/QC	quality assurance/quality control
QAP	installation-wide quality assurance plan
QC	quality control
QST	QST Environmental, Inc.
qty	quantity
Qual	qualifier
‘R’	rejected data; resample
RAO	removal action objective
RBC	risk-based concentration
RCRA	Resource Conservation and Recovery Act
RDX	cyclonite
RfD	reference dose
ReB3	Rarden silty clay loams
REG	regular field sample
REL	recommended exposure limit
RFA	request for analysis
RGO	remedial goal option
RI	remedial investigation
RL	reporting limit
RPD	relative percent difference
RRF	relative response factor
RSD	relative standard deviation
RTK	real-time kinematic
SAD	South Atlantic Division
SAE	Society of Automotive Engineers
SAIC	Science Applications International Corporation
SAP	installation-wide sampling and analysis plan
sc	clayey sands; sand-clay mixtures
Sch.	schedule
SD	sediment
SDG	sample delivery group
SDZ	safe distance zone; surface danger zone
SEMS	Southern Environmental Management & Specialties, Inc.
SFSP	site-specific field sampling plan
SGF	standard grade fuels
SHP	installation-wide safety and health plan
SI	site investigation
SL	standing liquid
SLERA	screening-level ecological risk assessment
sm	silty sands; sand-silt mixtures
SM	Serratia marcescens
SOP	standard operating procedure
sp	poorly graded sands; gravelly sands
SP	submersible pump
Sr-90	strontium-90
SRA	streamlined human health risk assessment
Ss	stony rough land, sandstone series
SS	surface soil
SSC	site-specific chemical
SSHO	site safety and health officer
SSHP	site-specific safety and health plan
SSL	soil screening level
SSSL	site-specific screening level
SSSSL	site-specific soil screening level
STB	supertropical bleach
STC	source term concentrations
STEL	short-term exposure limit
STOLS	Surface Towed Ordnance Locator System®
Std. units	standard units
SU	standard unit
SVOC	semivolatile organic compound
SW	surface water
SW-846	U.S. EPA’s *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*
SWPP	storm water pollution prevention plan
SZ	support zone
TAL	target analyte list
TAT	turn around time
TB	trip blank
TCA	trichloroethane
TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin
TCDF	tetrachlorodibenzofurans
TCE	trichloroethene
TCL	target compound list
TCLP	toxicity characteristic leaching procedure
TDGCL	thiodiglycol
TDGCLA	thiodiglycol chloroacetic acid
TERC	Total Environmental Restoration Contract
TIC	tentatively identified compound
TLV	threshold limit value
TN	Tennessee
TOC	top of casing; total organic carbon
TPH	total petroleum hydrocarbons
TRADOC	U.S. Army Training and Doctrine Command
TRPH	total recoverable petroleum hydrocarbons
TWA	time-weighted average
UCL	upper confidence limit
UCR	upper certified range
‘U’	not detected above reporting limit
USACE	U.S. Army Corps of Engineers
USACHPPM	U.S. Army Center for Health Promotion and Preventive Medicine
USAEC	U.S. Army Environmental Center
USAEHA	U.S. Army Environmental Hygiene Agency
USACMLS	U.S. Army Chemical School
USAMPS	U.S. Army Military Police School
USATEU	U.S. Army Technical Escort Unit
USATHAMA	U.S. Army Toxic and Hazardous Material Agency
USCS	Unified Soil Classification System
USDA	U.S. Department of Agriculture
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
UST	underground storage tank
UTL	upper tolerance level
UXO	unexploded ordnance
VOA	volatile organic analyte
VOC	volatile organic compound
VOH	volatile organic hydrocarbon
VQlfr	validation qualifier
VQual	validation qualifier
VX	nerve agent (O-ethyl-S-[diisopropylaminoethyl]-methylphosphonothiolate)
Weston	Roy F. Weston, Inc.
WP	installation-wide work plan
WS	watershed
WSA	Watershed Screening Assessment
WWI	World War I
WWII	World War II

XRF	x-ray fluorescence
yd^3	cubic yards

SAIC – Data Qualifiers, Codes and Footnotes, 1995 Remedial Investigation

N/A – Not analyzed

ND – Not detected

Boolean Codes

- LT – Less than the certified reporting limit

Flagging Codes

- 9 – Non-demonstrated/validated method performed for USAEC
- B – Analyte found in the method blank or QC blank
- C – Analysis was confirmed
- D – Duplicate analysis
- I – Interfaces in sample make quantitation and/or identification to be suspicious
- J – Value is estimated
- K – Reported results are affected by interfaces or high background
- N – Tentatively identified compound (match greater than 70%)
- Q – Sample interference obscured peak of interest
- R – Non-target compound analyzed for but not detected (GC/MS methods)
- S – Non-target compound analyzed for and detected (GC/MS methods)
- T – Non-target compound analyzed for but not detected (non GC/MS methods)
- U – Analysis in unconfirmed
- Z – Non-target compound analyzed for and detected (non-GC/MS methods)

Qualifiers

- J – The low-spike recovery is low
- N – The high-spike recovery is low
- R – Data is rejected