Final

Site Investigation Report
Former Printing Plant, Building 143 Basement, Parcel 138(7) and the UST at the Administration Building, Building 143, Parcel 37(7)

Fort McClellan
Calhoun County, Alabama

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See Attachment 1 – List of Abbreviations and Acronyms

Executive Summary

In accordance with Contract Number DACA21-96-D-0018, Task Order CK05, IT Corporation (IT) completed a site investigation (SI) at the Former Printing Plant, Building 143 Basement, Parcel 138(7) and the underground storage tank (UST) closure assessment for the UST at the Administrative Building, Building 143, Parcel 37(7). Hereafter these investigations will be referred to as the Former Printing Plant, Building 143, at Fort McClellan, Calhoun County, Alabama. These investigations were conducted to determine whether chemical constituents are present at the Former Printing Plant, Building 143 and, if present, whether the concentrations would present an unacceptable risk to human health or the environment. Investigation activities at the Former Printing Plant, Building 143 consisted of the sampling and analyses of four surface soil samples, seven subsurface soil samples, and two groundwater samples. In addition, one permanent well was installed in the residuum groundwater zone to facilitate groundwater sample collection and to provide site-specific geological and hydrogeological characterization information.

The analytical results indicate that metals, volatile organic compounds, and semivolatile organic compounds (SVOC) were detected in the environmental media sampled. The analytical results were compared to human health site-specific screening levels (SSSL) and ecological screening values (ESV). These SSSLs and ESVs were developed by IT as part of the human health and ecological risk evaluations associated with SIs being performed under the Base Realignment and Closure Environmental Restoration Program at FTMC. Additionally, metals results exceeding the SSSLs and ESVs were compared to media-specific background metals concentrations to determine if the metals detected in site media are within natural background concentrations. SVOC concentrations exceeding SSSLs and ESVs in surface and depositional soil samples were compared to PAH background screening values where available.

The potential impact to human receptors is expected to be minimal. With the exception of chromium and iron in one subsurface soil sample, the metals concentrations that exceeded residential human health SSSLs were within background concentrations for all other samples and thus, do not pose an unacceptable risk to future human receptors. The concentration of benzo(a)pyrene exceeded the residential human health SSSL and was below the polynuclear aromatic hydrocarbon background level at two surface soil sample locations. However, benzo(a)pyrene is a constituent of both asphalt and heating oil (which was used at the Former Printing Plant, Building 143). The compound was not detected in any of the collected

subsurface samples, indicating that these sample locations may have been influenced by runoff from nearby asphalt. Given the limited impacted area, benzo(a)pyrene is not expected to pose an unacceptable risk to human health in the residential land-use scenario. The concentrations of 1,4-dichlorobenzene, a compound usually used as an insecticide, and 4-methylphenol, a compound usually used in manufacturing and metal parts cleaning, exceeded residential human health SSSLs in one of the two groundwater samples. The groundwater sampled from the well likely represents surface water runoff that accumulated in backfill material from a removed UST. While it is possible that 1,4-dichlorobenzene and 4-methylphenol could have been used at Building 143, it was not detected in any surface or subsurface soil samples. Because the sampled well will not serve as a potable water source, the potential for human exposure is expected to be extremely low.

Several metals and four SVOCs were detected in site media at concentrations exceeding ESVs; however, the potential impact to ecological receptors is expected to be minimal. This is based on the limited impacted area and the future land use of the Former Printing Plant, Building 143, which is expected to be residential according to the 1997 *Fort McCellan Comprehensive Reuse Plan*. Under this land-use scenario, substantial ecological habitat is not expected to be present and, consequently, is expected to be minimally impacted.

Based on the results of the SI, past operations at the Former Printing Plant, Building 143 do not appear to have adversely impacted the environment. Furthermore, the metals and organic compounds detected in site media do not pose an unacceptable risk to human health and the environment in the residential land-use scenario. Therefore, IT recommends “No Further Action” and unrestricted reuse with regards to hazardous, toxic, and radiological waste at the Former Printing Plant, Building 143.

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, Mobile District (USACE). The USACE has contracted IT Corporation (IT) to provide environmental services for the site investigation (SI) of the Former Printing Plant, Building 143 Basement, Parcel 138(7), under Contract Number DACA21-96-D-0018, Task Order CK05. The USACE also contracted IT to provide environmental services for an underground storage tank (UST) closure assessment at the Administrative Building, Building 143, Parcel 37(7), under Contract Number DACA21-96-D-0018, Task Order CK08.

This SI report has been prepared to present specific information and results compiled from the SI and UST closure assessment, including field sampling and analysis and monitoring well installation activities conducted at the Former Printing Plant, Building 143 Basement, Parcel 138(7) and the UST at the Administrative Building, Building 143, Parcel 37(7), hereafter referred to as Former Printing Plant, Building 143.

1.1 Project Description

The Former Printing Plant, Building 143, was identified as an area to be investigated prior to property transfer. The Former Printing Plant, Building 143, 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 and a site-specific safety and health plan (SSHP) attachment was finalized in October 1998 for Parcel 138(7) (IT, 1998a) and in September 1999 (IT, 1999) for Parcel 37(7). The SFSPs and SSHPs were prepared to provide technical guidance for sample collection and analysis at the Former Printing Plant, Building 143. The SFSPs were used in conjunction with the SSHPs 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 (SHP) and quality assurance plan (QAP).

The investigation activities included fieldwork to collect four surface soil samples, seven subsurface soil samples, and two groundwater samples. Data from the investigation were used to determine whether potential site-specific chemicals are present at the Former Printing Plant, Building 143, and to provide data useful for supporting any future corrective measures and closure activities.

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 Former Printing Plant, Building 143, at concentrations that would present an unacceptable risk to human health or the environment. The conclusions of the SI in Section 6.0 are based on the comparison of the analytical results to human health site-specific screening levels (SSSL) and ecological screening values (ESV) 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 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, (Science Applications International Corporation [SAIC], 1998).

Based on the conclusions, the BRAC Cleanup Team will decide to propose “No Further Action” at the site or to conduct additional work at the site.

The UST closure assessment at Parcel 37(7) was designed to collect data from soil and groundwater samples to determine if past UST operations have impacted soil and groundwater. Additional sampling and analysis have been completed so a closure report can be performed and the property transferred as part of the Former Printing Plant, Building 143, SI.

1.3 Site Description and History

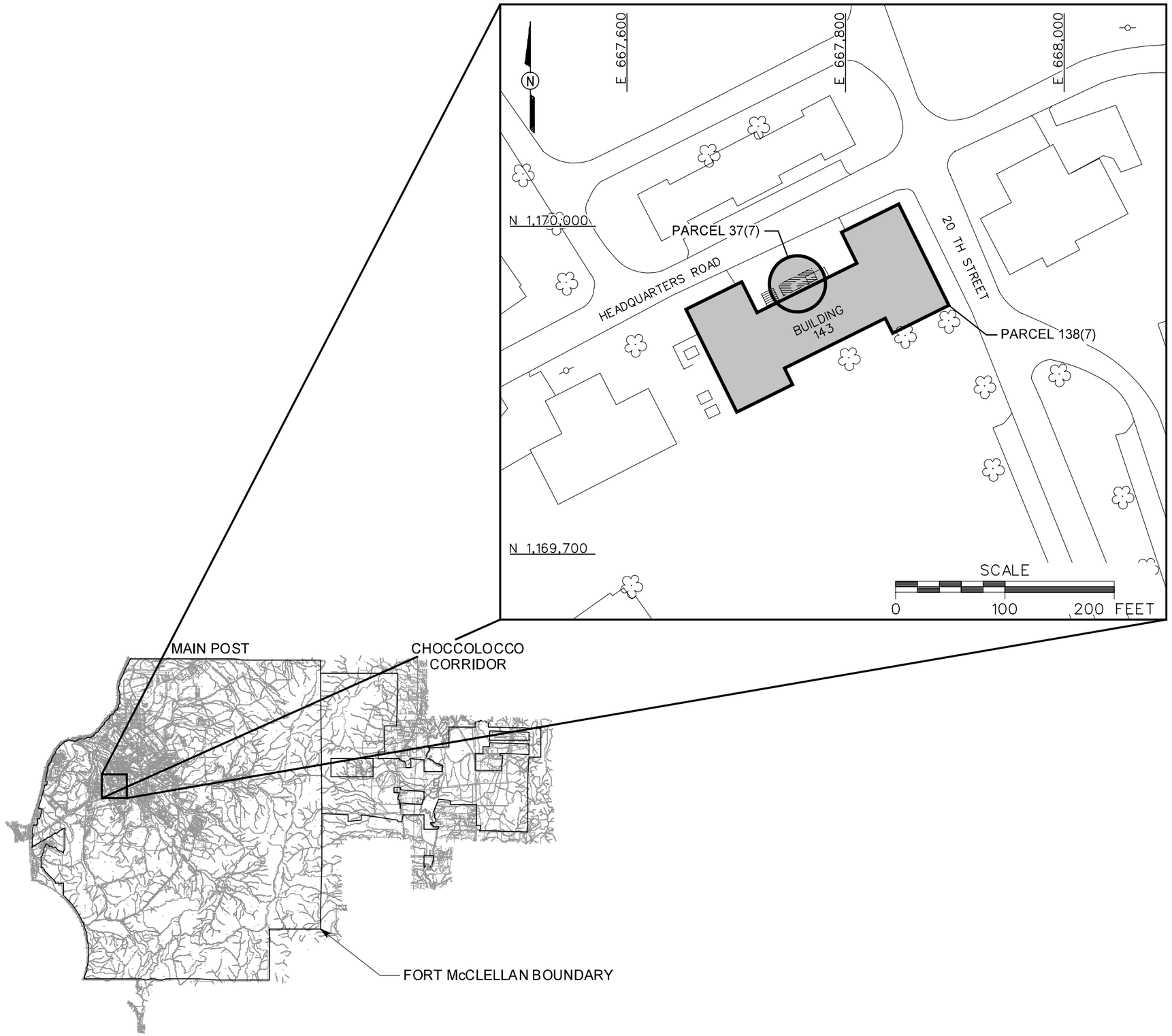
The Former Printing Plant, Building 143 Basement, is located in the central part of the Main Post

(Figure 1-1). Printing operations began at an unknown time and ended in 1969. No evidence remains of printing operations at this location (ESE, 1998). There are no sinks and/or floor drains in the basement. Potential printing materials used at the facility may have included petroleum hydrocarbons, printing fluids, solvents (including tetrachloroethene and petroleum naphtha), metals, and inks. The study area in and around Building 143 covers approximately 1 acre. The site and surrounding area is well developed. The buildings that were previously used for the Post Headquarters, Military Police Station, Personnel Office, and other administrative activities surround the study site. With base closure in September 1999, these activities stopped and the buildings were vacated.

A vaulted 4,000-gallon heating oil UST, Parcel 37(7), abutts Building 143 (Figure 1-2). The UST was installed in 1996 to replace a UST which was removed at that time (IT, 1998c). According to the closure report prepared by Theta Technologies, Inc., product odor was not detected within the excavation and the removed tank appeared to be in good condition (IT, 1999). The depth to groundwater was estimated to be greater than 5 feet below the bottom of the tank when the tank excavation pit was extended an additional 5 feet in an attempt to verify depth to groundwater. Soil samples were collected and screened for organic vapors; no evidence of contamination was observed. Groundwater samples were not collected. The excavated soil was returned to the open tank hold upon completion of the tank removal. Presently, two shallow wells are located adjacent to the UST. The purpose of the wells is unknown but may be for leak detection monitoring. Well construction details for the two wells are not available and records for the two wells were not found at FTMC. Inspection of the wells during field investigations indicated that both wells have screens within 1 to 3.5 feet below ground surface (bgs).

Site elevation is approximately 790 to 795 feet above sea level as established by the National Geodetic Vertical Datum. The South Branch of Cane Creek is located at least 600 feet to the northeast of the site, while Remount Creek is located at least 1,250 feet west of the site. There are numerous subsurface structures, such as sanitary or storm sewers, adjacent to Building 143. Figure 1-2 is a site map showing subsurface features, topographic features, and site boundaries.

The soil type at the Former Printing Plant, Building 143 Basement, is Montevallo. Montevallo soils are severely eroded, shaly silty clay soils. These soils are formed either by erosional forces, surface runoff, or natural reworking processes. The high erosion hazard, low capacity for available moisture, and thin root zone make this soil unsuited for cultivation (U.S. Department of Agriculture, 1961).



LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TREES / TREELINE
- PARCEL BOUNDARY
- UTILITY POLE

FIGURE 1-1
SITE LOCATION MAP
FORMER PRINTING PLANT BUILDING 143 BASEMENT, PARCEL 138(7) AND UST AT THE ADMINISTRATIVE BUILDING 143, PARCEL 37(7)

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

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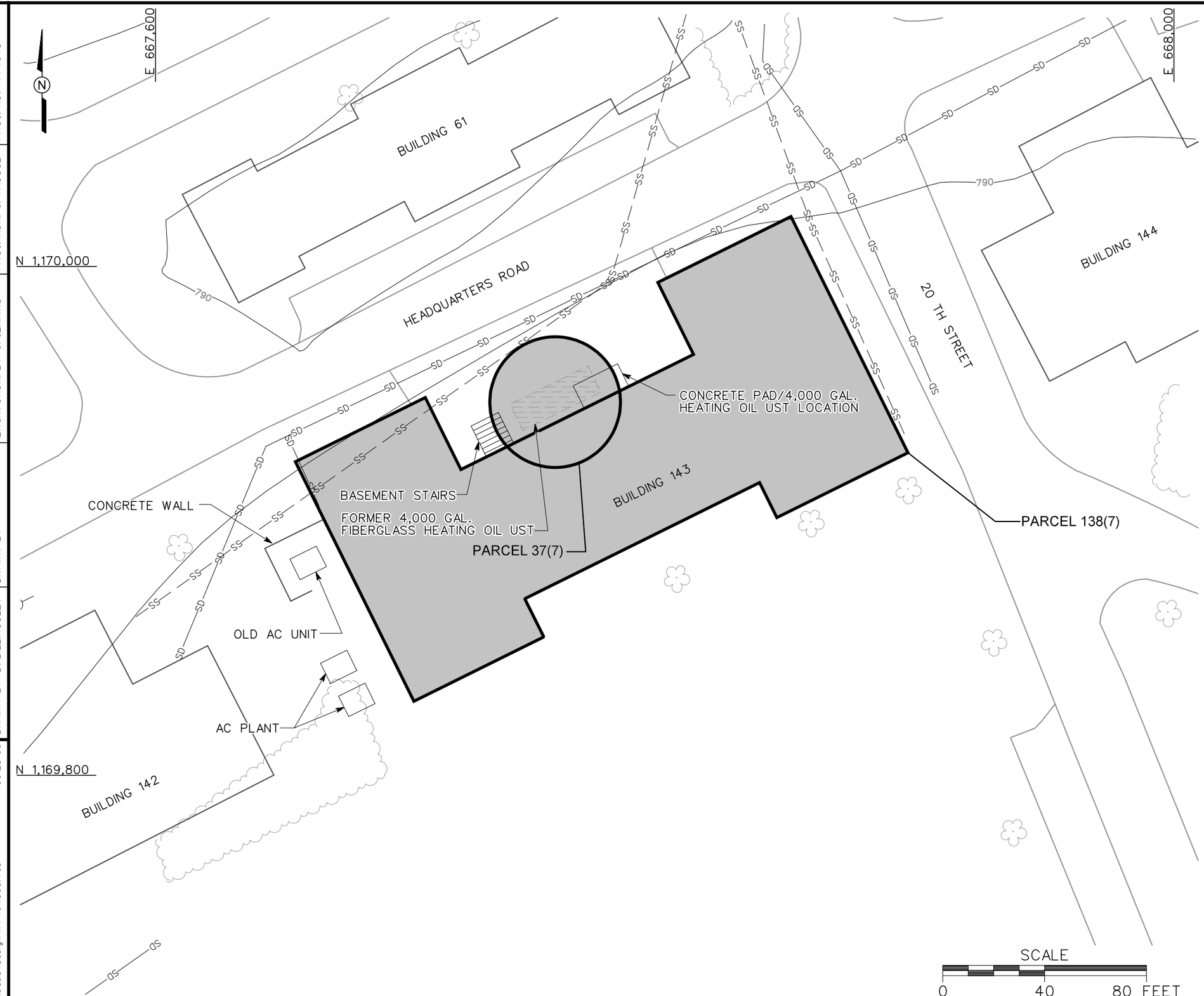

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 5 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- UTILITY POLE
- SS — SANITARY SEWER LINE
- SD — STORM DRAINAGE LINE

FIGURE 1-2
SITE MAP
FORMER PRINTING PLANT BUILDING 143 BASEMENT, PARCEL 138(7) AND UST AT THE ADMINISTRATIVE BUILDING 143, PARCEL 37(7)

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

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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 (including migration) has occurred
2. Areas where only release or disposal of petroleum products has occurred
3. Areas of contamination below action levels
4. Areas where all necessary remedial actions have been taken
5. Areas of known contamination with removal and/or remedial action underway
6. Areas of known contamination where required response actions have not been taken
7. Areas that are not evaluated or require further 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 historic maps and aerial photographs were reviewed to document historic 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. The Former Printing Plant, Building 143 Basement, Parcel 138(7) and the UST at the Administration Building, Building 143, Parcel 37(7), were identified as a Category 7 CERFA sites: areas that are not evaluated or require further evaluation.

The Former Printing Plant, Building 143 Basement, Parcel 138(7), consists of one site only. The

site was identified as a CERFA site, where hazardous substances were possibly stored, released, or disposed of and/or the migration of hazardous substances is suspected, but the site is either not evaluated or requires additional evaluation to determine the environmental condition of the site. Printing operations in the Building 143 Basement began at an unknown date and ended in 1969. Presently, there is not any evidence of printing operations at this location. Currently, the site has unrestricted access.

A former heating oil UST adjacent to Administration Building, Building 143, Parcel 37(7), was removed and replaced in 1996 (IT, 1999). Soil samples were field screened during replacement and evidence of soil contamination was not observed. Neither soil nor groundwater samples were collected for analyses. Surface soil, subsurface soil, and groundwater are the media of potential concern.

These CERFA parcels are classified as a Category 7 sites because various types of materials, equipment, vehicles, hazardous materials, and hazardous wastes have been stored, and some of these materials may possibly have been released onto the site or to the environment, and/or were disposed on site property. The Former Printing Plant, Building 143 Basement and the UST at the Administration Building, Building 143, lack adequate documentation and, therefore, require additional evaluation to determine the environmental condition of the parcels.

3.0 Current Site Investigation Activities

3.1 Environmental Sampling

The environmental sampling performed during the investigations at the Former Printing Plant, Building 143 Basement, included the collection of surface soil samples, subsurface soil samples, and groundwater samples for chemical analysis. The sample locations were determined by observing site physical characteristics noted 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. Sample collection documentation and logs are included in Appendix A and Appendix B, respectively. The sample location survey coordinates are summarized in Appendix C.

3.1.1 Surface Soil Sampling

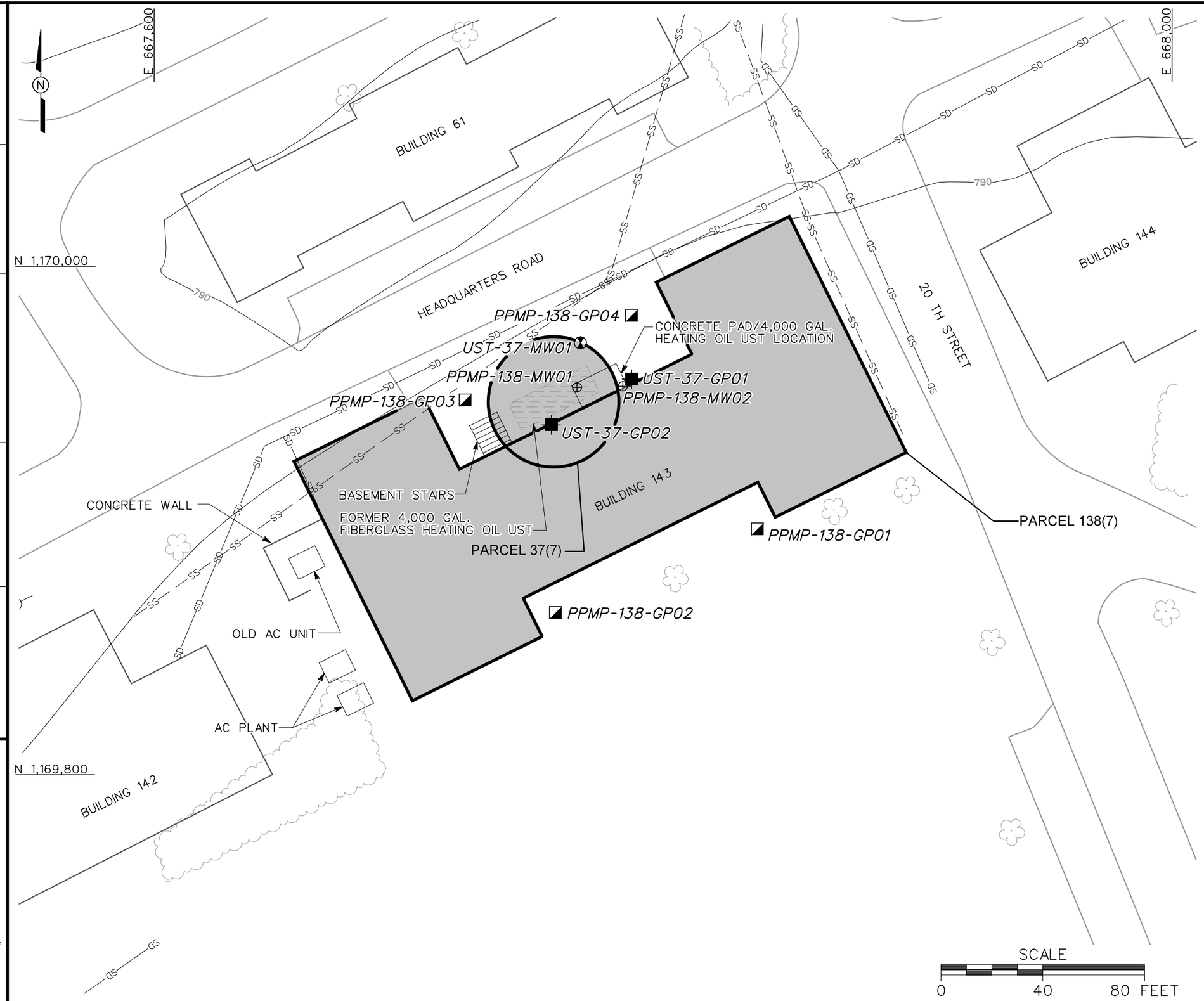
Surface soil samples were collected from four locations at the Former Printing Plant, Building 143 Basement. Soil sampling locations and rationale are presented in Table 3-1. Sampling locations are shown on Figure 3-1. Sample designations and quality assurance/quality control (QA/QC) samples are listed 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 and overhead utilities.

Sample Collection. Surface soil samples were collected from the upper 1 foot of soil by either direct-push technology or with a 3-inch diameter stainless-steel hand auger using the methodology specified in Section 4.9 of the SAP (IT, 2000a). Surface 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) analyses 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.

Table 3-1

Sampling Locations and Rationale
Former Printing Plant, Building 143
Fort McClellan, Calhoun County, Alabama

Sample Designation	Media Sampled	Sample Location Rationale
PPMP-138-GP01	Surface soil Subsurface soil	Surface soil and subsurface soil samples were collected near the southeast door of Building 143. Sample location represents an exit point (via foot traffic) for site-specific chemicals to be deposited onto surface or subsurface soil.
PPMP-138-GP02	Surface soil Subsurface soil	Surface soil and subsurface soil samples were collected near the southwest corner of Building 143. Sample location represents an exit point (via foot traffic) for site-specific chemicals to be deposited onto surface or subsurface soil.
PPMP-138-GP03	Surface soil Subsurface soil	Surface soil and subsurface soil samples were collected near the northwest corner of Building 143. Sample location represents an exit point (via foot traffic) for site-specific chemicals to be deposited onto surface or subsurface soil. Sample location is near underground structures; foundations, tanks, water/sewer lines that may encourage infiltration or runoff into the subsurface soil.
PPMP-138-GP04	Surface soil Subsurface soil	Surface soil and subsurface soil samples were collected near the northeast corner of Building 143. Sample location represents an exit point (via foot traffic) for site-specific chemicals to be deposited onto surface or subsurface soil. Sample location is near probable underground structures; foundations, tanks, water/sewer lines that may encourage infiltration or runoff into the subsurface soil.
PPMP-138-MW01	Groundwater	A groundwater sample was collected from an existing monitoring well located on the west side of the existing heating oil underground storage tank (UST). Based on the depth to water in PPMP-138-MW01 and the lack of groundwater encountered during boring activities in native material at Parcel 138, the groundwater elevation measured in PPMP-138-MW01 likely represents surface water present in the UST backfill material. A record of the previous designation of this well is not available.
UST-37-GP01	Subsurface soil	Soil boring for subsurface soil sample was placed topographically downgradient of the 4,000 gallon heating oil UST. Sample data indicates if subsurface soil contamination exists from previous leaks or spills.
UST-37-GP02	Subsurface soil	Soil boring for subsurface soil sample was placed topographically upgradient of the 4,000 gallon heating oil UST. Sample data indicates if subsurface soil contamination exists upgradient of UST as shown on Figure 3-1.
UST-37-MW01	Subsurface soil Groundwater	A groundwater sample was collected from a new permanent monitoring well located downgradient of the former and existing heating oil USTs. Sample data indicates if either subsurface soil or groundwater contamination exists from previous leaks or spills. The monitoring well data is used to provide information on the groundwater quality in the residuum aquifer.



LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 5 FOOT)
- TREES / TREELINE
- PARCEL BOUNDARY
- UTILITY POLE
- SS — SANITARY SEWER LINE
- SD — STORM DRAINAGE LINE
- EXISTING RESIDUUM MONITORING WELL LOCATION
- SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION
- SUBSURFACE SOIL SAMPLE LOCATION
- GROUNDWATER AND SUBSURFACE SOIL SAMPLE LOCATION

FIGURE 3-1
SAMPLE LOCATION MAP
FORMER PRINTING PLANT BUILDING 143 BASEMENT, PARCEL 138(7) AND UST AT THE ADMINISTRATIVE BUILDING 143, PARCEL 37(7)

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

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Table 3-2

Surface and Subsurface Soil Sample Designations and QA/QC Sample Quantities
Former Printing Plant, Building 143
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-138-GP01	PPMP-138-GP01-SS-KE0001-REG	0- 1			PPMP-138-GP01-SS-KE0001-MS	TCL VOCs, TCL SVOCs
	PPMP-138-GP01-DS-KE0002-REG	6-8			PPMP-138-GP01-SS-KE0001-MSD	TAL Metals
PPMP-138-GP02	PPMP-138-GP02-SS-KE0003-REG	0 - 1				TCL VOCs, TCL SVOCs
	PPMP-138-GP02-DS-KE0004-REG	2-3				TAL Metals
PPMP-138-GP03	PPMP-138-GP03-SS-KE0005-REG	0 - 1				TCL VOCs, TCL SVOCs
	PPMP-138-GP03-DS-KE0006-REG	9-12	PPMP-138-GP03-DS-KE0007-FD	PPMP-138-GP03-DS-KE0008-FS		TAL Metals
PPMP-138-GP04	PPMP-138-GP04-SS-KE0009-REG	0 - 1				TCL VOCs, TCL SVOCs
	PPMP-138-GP04-DS-KE0010-REG	6-9				TAL Metals
UST-37-MW01	UST-37-MW01-DS-CJ0027-REG	9-10				BTEX, PAH, and Pb
UST-37-GP01	UST-37-GP01-DS-CJ0028-REG	10-12				BTEX, PAH, and Pb
UST-37-GP02	UST-37-GP02-DS-CJ0029-REG	10-12				BTEX, PAH, and Pb

FD - Field duplicate
FS - Field split
ft bgs - Feet below ground surface
MS/MSD - Matrix spike/matrix spike duplicate
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
BTEX - Benzene, toluene, ethyl benzene, and total xylenes
PAH - Polynuclear aromatic hydrocarbons
Pb - lead

3.1.2 Subsurface Soil Sampling

Subsurface soil samples were collected from seven soil boring locations, shown on Figure 3-1, at the Former Printing Plant, Building 143 Basement. Subsurface 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 direct-push technology subcontractor, to assist in subsurface soil sample collection.

Sample Collection. Subsurface soil samples were collected from soil borings at a depth greater than 1 foot bgs in the unsaturated zone. The soil borings were advanced and soil samples collected using the direct-push 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.

Soil samples were collected continuously to 12 feet bgs or until direct-push sampler refusal was encountered. Subsurface soil 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 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. 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.

Unless the boring was used to install a monitoring well, the borehole was abandoned at the completion of soil sampling with hydrated bentonite chips. The borehole abandonment procedures summarized in Appendix B of the SAP (IT, 2000a) were used.

3.1.3 Well Installation

One permanent well was installed in the residuum groundwater zone at the Former Printing Plant, Building 143, in addition to the two existing wells to collect groundwater samples for laboratory analysis. The two existing wells are associated with Parcel 138(7) and for the purpose of the SI data management were designated PPMP-138-MW01 and PPMP-138-MW02. The third well was installed during the UST closure assessment and is associated with Parcel 37(7).

Its designation is UST-37-MW01. The well/groundwater sample locations are shown on Figure 3-1. Table 3-3 summarizes the known construction details of the wells installed at the Former Printing Plant, Building 143. A well construction log for UST-37-MW01 is included in Appendix B.

The well installation for UST-37-MW01 was accomplished in December 1999 by Miller Drilling with a hollow-stem auger rig following procedures outlined in Section 4.7 of the SAP (IT, 2000a). The borehole 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 depth of direct-push sampler refusal and soil samples were collected at the depth of direct-push refusal 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 spoon refusal occurred, 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 drill cuttings were logged to determine lithologic changes and the approximate depth of groundwater encountered during drilling. This information was used to determine the optimal placement of the monitoring well screen interval and to provide site-specific geologic and hydrogeologic information. The lithological log for the borehole is included in Appendix B.

Upon reaching the target depth, a 10- or 15-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 number 1 filter sand 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 approximately 10 minutes, or until no more settling of the filter sand occurred inside the borehole. A bentonite seal, consisting of approximately 2 feet of bentonite chips, was placed immediately on top of the filter sand and hydrated with potable water. If the bentonite seal was installed below the water table surface, the bentonite chips were allowed to hydrate in the groundwater. The bentonite seal placement and hydration followed procedures in Appendix C of the SAP (IT, 2000a). A locking well cap was placed on the PVC well stickup. The permanent well surface completion included installing a concrete pad and metal access plate.

Well UST-37-MW01 was 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). Development continued until the water turbidity was equal to or less than 20 nephelometric

Table 3-3

Well Construction Summary
Former Printing Plant, Building 143
Fort McClellan, Calhoun County, Alabama

Well	Northing	Easting	Ground Elevation (ft msl)	TOC Elevation (ft msl)	Well Depth (ft bgs)	Screen Length (ft)	Screen Interval (ft bgs)	Sump Interval (ft bgs)	Well Material
PPMP-138-MW01	1169951.58	667766.81	793.34	792.67	10.40	NA	NA	NA	4" ID PVC SCH 40
PPMP-138-MW02	1169952.06	667784.81	793.38	792.49	6.25	NA	NA	NA	4" ID PVC SCH 40
UST-37-MW01	1169969.117	667768.159	793.16	792.89	39	15	23 - 38	38 - 39	2" ID PVC SCH 40

Wells PPMP-138-MW01and PPMP-138-MW02 are existing wells associated with Parcel 138(7). No well installation documentation was found.
PPMP-138-MW02 did not contain enough groundwater to collect a sample.
Well UST-37-MW01 was 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 North American Vertical Datum of 1988 (NAV88).
TOC - top of casing
4" ID Sch. 40 PVC - 4-inch diameter, Schedule 40, polyvinyl chloride
2" ID Sch. 40 PVC - 2-inch diameter, Schedule 40, polyvinyl chloride
ft bgs - feet below ground surface
msl - mean sea level
NA - not available

turbidity units (NTU) or until a maximum of 4 hours. The well development logs are included in Appendix D.

3.1.4 Water Level Measurements

The depth to groundwater was measured in the wells at the Former Printing Plant, Building 143, in March 2000 following procedures outlined in Section 4.18 of the SAP (IT, 2000a). Depth to groundwater was measured with an electronic water level meter in PPMP-138-MW01 and UST-37-MW01. Existing well PPMP138-MW-02 did not have a measurable column of water to gauge a water elevation. The meter probe and cable were cleaned between use at each well following decontamination methodology presented in Section 4.10 of the SAP (IT, 2000a). Measurements were referenced to the top of the polyvinyl chloride well casing. A summary of groundwater level measurements is presented in Table 3-4.

3.1.5 Groundwater Sampling

A total of two groundwater samples were collected at the Former Printing Plant, Building 143, one sample from the existing well (PPMP-138-MW01) and one from the installed permanent well (UST-37-MW01). The other existing well, PPMP-138-MW02, did not contain enough groundwater to collect a representative sample. 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 sample quantities are listed in Table 3-5.

Sample Collection. Groundwater sampling was performed following procedures outlined in Section 4.9 of the SAP (IT, 2000a). Groundwater was sampled after purging a minimum three well volumes and field parameters including temperature, pH, specific conductivity, oxidation-reduction potential, and turbidity stabilized. Purging and sampling were performed with a submersible pump or a Geotech® Dual Head peristaltic pump equipped with 0.25-inch ID Teflon™ tubing. Field parameters were measured using a Hydrolab® water quality unit and 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 the methods outlined in Section 3.3.

3.2 Surveying of Sample Locations

New and existing sample locations were surveyed using global positioning system survey techniques described in Section 4.3 of the SAP (IT, 2000a), and conventional civil survey techniques described in Section 4.19 of the SAP (IT, 2000a). Horizontal coordinates were referenced to the U.S. State Plane Coordinate System, Alabama East Zone, North American Datum, 1983. Elevations were referenced to the North American Vertical Datum of 1988. Horizontal coordinates and elevations are included in Appendix C.

Table 3-4

Groundwater Elevations
Former Printing Plant, Building 143
Fort McClellan, Calhoun County, Alabama

Well Location	Date	Depth to Water (ft BTOC)	Top of Casing Elevation (ft msl)	Ground Elevation (ft msl)	Groundwater Elevation (ft msl)
PPMP-138-MW01	14-Mar-00	12.38	792.67	793.34	780.29
UST-37-MW01	13-Mar-00	12.52	792.89	793.16	780.37

Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

BTOC - Below top of casing
ft - Feet
msl - Mean sea level

Table 3-5

Groundwater Sample Designations and QA/QC Sample Quantities
Former Printing Plant, Building 143
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-138-MW01	PPMP-138-MW01-GW-KE3001-REG	7-10[a]	PPMP-138-MW01-GW-KE3003-FD	PPMP-138-MW01-GW-KE3004-FS	PPMP-138-MW01-GW-KE3001-MS PPMP-138-MW01-GW-KE3001-MSD	TCL VOCs, TCL SVOCs Total TAL Metals
UST-37-MW01	UST-37-MW01-GW-CJ3029-REG	23-38	UST-37-MW01-GW-CJ3030-FD	UST-37-MW01-GW-CJ3031-FS		BTEX, PAH, and Pb

[a] PPMP-138-MW01 is an existing well and no installation documentation was found. The sample depth is estimated based on visual inspection. The actual depth to water was 6.63 feet bgs as recorded on the sample collection log (Appendix A).

FD - Field duplicate
FS - Field split
ft bgs - Feet below ground surface
MS/MSD - Matrix spike/matrix spike duplicate
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
BTEX - Benzene, toluene, ethylbenzene, and total xylenes
PAH - Polynuclear aromatic hydrocarbons
Pb - lead

Table 3-6

Groundwater Field Parameters
Former Printing Plant, Building 143
Fort McClellan, Calhoun County, Alabama

Sample Location	Date	Media	Specific Conductivity (µmhos/cm)	Dissolved Oxygen (ppm)	Redox Potential (mV)	Temperature (^{o}C)	Turbidity (NTUs)	pH (Std units)
PPMP-138-MW01	22-Feb-99	GW	562	0.62	-146.2	15.38	0.6	7.28
UST-37-MW01	1-Feb-00	GW	75	0.33	305	17.7	15.3	5.1

^{o}C - Degrees Celsius
GW - Groundwater
µmhos/cm - Micromhos per centimeter
mV - Millivolts
NTUs - Nephelometric turbidity units
ppm - Parts per million
Std units - Standard units

3.3 Analytical Program

Samples collected during the SI were analyzed for various chemical properties. The specific suite of analyses performed is based on the potential site-specific chemicals historically at the site and EPA, ADEM, FTMC, and USACE requirements. Samples collected at the Former Printing Plant, Building 143 were analyzed for the following parameters:

- Target compound list (TCL) VOCs - Method 5035/8260B
- Benzene, toluene, ethyl benzene, and xylenes (BTEX) - Method 8021B
- TCL semivolatile organic compounds (SVOC) - Method 8270C
- PAHs - Method 8310
- Target analyte list (TAL) metals - Method 6010B/7000
- Lead - Method 6010B.

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 Chapter 5.0, Table 5-1, of Appendix B of the SAP (IT, 2000a). Sample documentation and chain-of-custodies were recorded 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 from the field sampling at the Former Printing Plant, Building 143, 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 rolloff 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 Former Printing Plant, Building 143, 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 wash rack. 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.

3.6 Variances/Nonconformances

3.6.1 Variances

One variance to the SFSP was recorded during completion of the SI at the Former Printing Plant, Building 143 Basement. The variance did not alter the intent of the investigation or the sampling rationale presented in Table 4-2 of the SFSP (IT, 1998a). The variance to the SFSP is summarized in Table 3-7 and included in Appendix G.

Table 3-7

Variance to the Site-Specific Field Sampling Plan
Former Printing Plant, Building 143
Fort McClellan, Calhoun County, Alabama

Variance to the SFSP	Justification for Variance	Impact to Site Investigation
A groundwater sample was not collected from existing monitoring well PPMP-138-MW02.	Existing monitoring well designated PPMP-138-MW02 located on the east side of the heating oil UST was dry. Several attempts were made to sample the well, but each attempt was unsuccessful.	None. Monitoring well PPMP-138-MW01, which is located on the west side of the heating oil UST, was sampled and provided water data near the existing heating oil UST.

3.6.2 Nonconformances

There were not any nonconformances to the SFSP recorded during completion of the SI at the Former Printing Plant, Building 143.

3.7 Data Quality

The field sample results 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 and UST closure assessment work plan; the FTMC SAP and QAP; and standard, accepted methods and procedures. Sample collection logs pertaining to the collection of these samples were reviewed and organized for this report and are included in Appendix A. As discussed in Section 3.6, there were not any variances or nonconformances identified either in the field or during the review of sample collection logs that may have impacted the usability of the data.

Data Validation. A complete (100 percent) Level III data validation effort was performed on the reported analytical data from the SI performed at the Former Printing Plant, Building 143 Basement, Parcel 138(7). Data validation was not required per the SSFP (IT, 1999) on the analytical data from the closure assessment performed for the UST at the Administration Building, Building 143, Parcel 37(7). This is reflected in the data validation qualifier column where the qualifier "NV" is reported for these data indicating that the Parcel 37(7) data is "not validated."

Appendix F consists of a data validation summary report that was prepared to discuss the results of the validation performed on Parcel 138(7) data. Selected results were rejected or otherwise 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 developed by IT. 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 Former Printing Plant, Building 143, provided soil, bedrock, and groundwater data. These data were 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 consist primarily of coarse-grained, vitreous quartzite, and friable, fine- to coarse-grained, orthoquartzitic sandstone, both of which locally contain conglomerate. The fine-grained facies consist 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 southwest of the Main Post as mapped by Warman and Causey (1962) and Osborne and Szabo (1984) and immediately 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 underlying Former Printing Plant, Building 143, are mapped as Montevallo (MtD3) (U.S. Department of Agriculture, 1961). Montevallo soils are severely eroded, shaly silty clay soils formed in the residuum of interbedded shale and fine-grained sandstone or limestone. Montevallo soils underlying Parcels 138(7) and 37(7) typically consist of clay with silt, sand, and shale.

Bedrock beneath the Former Printing Plant, Building 143, is mapped as the Mississippian/Ordovician Floyd and Athens Shale, undifferentiated. These units occur within the eroded “window” in the uppermost structural thrust sheet at FTMC and underlie much of the developed area of the Main Post.

Six borings and one monitoring well were installed at Former Printing Plant, Building 143, to collect lithologic data, characterize the underlying geology, and collect groundwater samples. The total depths of the six borings ranged from 6 to 12 feet bgs. Sand, with silt and some gravel from the ground surface to 4 feet bgs and 3.5 feet bgs in borings PPMP-138-GP01 and PPMP-138-GP02, respectively, overlies a brown mottled clay layer. The clay varies in thickness from 3.5 feet to 3 feet in borings PPMP-138-GP01 and PPMP-138-GP02, respectively. Soft weathered shale was encountered at 7.5 feet bgs and 5.5 feet bgs in borings PPMP-138-GP01

and PPMP-138-GP02, respectively. Sand with some silt to 3 feet bgs, overlies silt to 7.5 feet bgs and 7 feet bgs in borings PPMP-138-GP03 and PPMP-138-GP04, respectively. Brown mottled clay was encountered from 7.5 feet bgs to 12 feet bgs, and 7 feet bgs to 8.5 feet bgs, respectively, in borings PPMP-138-GP03 and PPMP-138-GP04. Red sandstone was encountered in boring PPMP-138-GP04 from 8.5 to 9 feet bgs. Based on boring data from nearby parcels, red sandstone is not associated with Mississippian/Ordovician Floyd and Athens Shale, undifferentiated. Therefore, the observation of red sandstone in boring PPMP-138-GP04 likely represents fill material.

Boring UST-37-GP01 and UST-37-GP02 consisted of brown silt, clay, sand mixtures with some gravel in the upper 4 feet. Weathered shale was not encountered.

Monitoring well UST-37-MW01 was installed through sandy clays and silty clays with some grave to a depth of 14 feet bgs. Weathered red to dark brown and gray shale was encountered at 19 feet bgs and confirmed to the boring terminus at 38 feet bgs.

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. 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.

There are not any natural surface water drainage features in the vicinity of the Former Printing Plant, Building 143. The South Branch of Cane Creek is over 600 feet to the northeast of the site, and Remount Creek is over 1,250 feet west of the site. However, there are numerous subsurface structures, such as sanitary or storm sewers, adjacent to Building 143.

4.2.2 Hydrogeology

During boring installation activities, groundwater was not encountered in the residuum to a depth of 12 feet bgs.

The static groundwater level was measured in wells PPMP-138-MW01 and UST-37-MW01 on March 13 and 14, 2000 as summarized on Table 3-4. Well PPMP-138-MW02 did not have a

measurable water column. Monitoring wells installed at adjacent parcels had static groundwater levels measured 10- to 15-feet deeper than that observed in PPMP-138-MW01. Based on the depth to water in PPMP-138-MW01 and the lack of groundwater encountered during SI boring activities in native material at Parcel 138(7), the groundwater elevation measured in PPMP-138-MW01 likely represents surface water present in the UST backfill material.

5.0 Summary of Analytical Results

The results of the chemical analyses of samples collected at the Former Printing Plant, Building 143, indicate that metals, VOCs, and SVOCs have been detected in the various site media. To evaluate whether the detected constituents present an unacceptable risk to human health and the environment, detected constituent concentrations were compared to the 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 background metals screening values (background concentrations) (SAIC, 1998) in Appendix H to determine if the metals concentrations are below natural background concentrations. Additionally, SVOC concentrations in surface and subsurface soils that exceeded the SSSLs and ESVs were compared to PAH background screening values, where available. 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 2 categories of surface soils: beneath asphalt and adjacent to asphalt. The PAH background screening values for soils adjacent to asphalt are more conservative PAH background values (i.e., lower) and are the values used herein for comparison.

Six compounds were quantified by both SW-846 Method 8260B (VOCs) and Method 8270C (SVOCs), including 1,2,4-trichlorobenzene, 1,4-dichlorobenzene, 1,3-dichlorobenzene, 1,2-dichlorobenzene, hexachlorobutadiene, and naphthalene. Method 8260B yields a reporting limit (RL) of 0.005 milligrams per kilogram (mg/kg), while Method 8270C has a RL of 0.330 mg/kg, which is typical for a soil matrix sample. Because of the direct nature of the Method 8260B analysis and its resulting lower RL, 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 and 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 validation qualifiers and concentrations reported (e.g., whether concentrations were less than or greater than 0.330 mg/kg) were used to determine which analytical method was likely to return the more accurate result.

The following sections and Tables 5-1 through 5-3 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 Soil Sample Results

Four surface soil samples were collected for chemical analyses at the Former Printing Plant, Building 143. Surface soil samples were collected from the upper 1 foot of soil at various locations across the parcel, as shown on Figure 3-1. One of the four samples (PPMP-138-GP04) was collected directly beneath asphalt pavement at Parcel 138(7). Analytical results were compared to residential human health and ecological SSSLs and background concentrations, as presented in Table 5-1.

Metals. Nineteen metals were detected in surface soil samples collected at the Former Printing Plant, Building 143. The sodium results were flagged with a "B" data qualifier indicating that the sodium was also detected in an associated laboratory or field blank sample. The beryllium, chromium, cobalt, lead, mercury, and vanadium results were flagged with a "J" data qualifier signifying that the results were greater than the method detection limit (MDL) but less than the RL. In addition, the magnesium, nickel, and potassium results were flagged with a "J" data qualifier in at least one of the four surface samples.

Aluminum, arsenic, iron, and manganese concentrations exceeded residential human health SSSLs and ESVs but were within background concentrations. Six metals (beryllium, copper, lead, mercury, selenium, and zinc) were detected at concentrations exceeding ESVs and background screening values but below residential human health SSSLs.

Volatile Organic Compounds. Five VOCs, including acetone, bromomethane, methylene chloride, p-cymene, and toluene, were detected in surface soil samples collected at the Former Printing Plant, Building 143. Three of the VOCs (acetone, bromomethane, and methylene chloride) results were flagged with a "B" data qualifier indicating that these compounds were also detected in an associated laboratory or field blank sample. The compounds p-cymene (PPMP-138-GP02) and toluene (PPMP-138-GP03) were each detected in only one sample. The toluene result was flagged with a "J" data qualifier signifying that the result was greater than the MDL but less than the RL.

Table 5-1

Surface Soil Analytical Results
Former Printing Plant, Building 143
Fort McClellan, Calhoun County, Alabama

				Parcel:	PPMP-138					PPMP-138					PPMP-138					PPMP-138				
				Sample Location:	PPMP-138-GP01					PPMP-138-GP02					PPMP-138-GP03					PPMP-138-GP04				
				Sample Number:	KE0001					KE0003					KE0005					KE0009				
				Sample Date:	19-Jan-99					19-Jan-99					19-Jan-99					19-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	9.35E+03			YES	YES	7.50E+03				YES	1.28E+04			YES	YES	1.38E+04			YES	YES
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	9.50E+00			YES		1.01E+01			YES	YES	4.30E+00			YES		4.60E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	1.14E+02					7.76E+01					4.82E+01					8.87E+01				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	5.80E-01	J				5.80E-01	J				4.20E-01	J				1.50E+00	J	YES		YES
Calcium	mg/kg	1.72E+03	NA	NA	3.89E+03		YES			7.87E+02					6.79E+03		YES			1.77E+04		YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.82E+01	J			YES	1.36E+01	J			YES	1.74E+01	J			YES	1.81E+01	J			YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	4.40E+00	J				5.60E+00	J				2.20E+00	J				1.70E+00	J			
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	2.94E+01		YES			7.78E+01		YES		YES	9.10E+00					1.73E+01		YES		
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	1.50E+04			YES	YES	1.34E+04			YES	YES	1.84E+04			YES	YES	2.56E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	7.18E+01	J	YES		YES	6.99E+01	J	YES		YES	7.90E+00	J				1.74E+01	J			
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	5.61E+02	J				2.43E+02	J				9.84E+02					2.86E+03		YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	5.48E+02			YES	YES	8.42E+02			YES	YES	5.78E+01					1.52E+02				YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	1.00E-02	J				1.70E-01	J	YES		YES	5.30E-02	J				4.60E-02	J			
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	5.80E+00					5.40E+00					4.70E+00					4.50E+00	J			
Potassium	mg/kg	8.00E+02	NA	NA	1.68E+02	J				1.80E+02	J				4.96E+02	J				6.68E+02				
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	1.20E+00		YES		YES	8.30E-01		YES		YES	9.40E-01		YES		YES	1.70E+00		YES		YES
Sodium	mg/kg	6.34E+02	NA	NA	6.99E+01	B				9.06E+01	B				9.79E+01	B				1.42E+02	B			
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	2.61E+01	J			YES	1.96E+01	J			YES	2.97E+01	J			YES	3.20E+01	J			YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	7.12E+01		YES		YES	6.72E+01		YES		YES	1.96E+01					2.05E+01				
SEMIVOLATILE ORGANIC COMPOUNDS																								
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	9.20E-02	J				ND					ND					ND				
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	3.20E-01	J				5.00E-02	B				ND					2.80E-01	J			
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	2.90E-01	J		YES	YES	5.00E-02	J				ND					2.50E-01	J		YES	YES
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	3.90E-01					7.80E-02	J				ND					3.20E-01	J			
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	0.00E+00	1.70E-01	J				ND					ND					ND				
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	1.50E-01	J				ND					ND					ND				
Carbazole	mg/kg	NA	3.11E+01	NA	6.90E-02	J				ND					ND					ND				
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	3.20E-01	J				5.90E-02	B				ND					3.00E-01	J			
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	7.40E-01				YES	1.00E-01	J			YES	ND					7.10E-01	J			YES
Fluorene	mg/kg	6.67E-01	3.09E+02	1.22E+02	4.20E-02	J				ND					ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	1.80E-01	J				ND					ND					ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	4.50E-01				YES	5.40E-02	J				ND					5.00E-01	J			YES
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	5.20E-01	J			YES	7.60E-02	J				ND					5.20E-01	J			YES
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	4.50E-02	J				1.60E-01	J				ND					ND				
VOLATILE ORGANIC COMPOUNDS																								
Acetone	mg/kg	NA	7.76E+02	2.50E+00	9.40E-03	B				4.60E-02	B				1.20E-02	B				6.20E-02	B			
Bromomethane	mg/kg	NA	1.09E+01	NA	2.50E-03	B				1.70E-03	B				1.60E-03	B				2.10E-03	B			
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	3.20E-03	B				3.20E-03	B				1.90E-03	B				3.10E-03	B			
Toluene	mg/kg	NA	1.55E+03	5.00E-02	ND					ND					4.40E-03	J				ND				
p-Cymene	mg/kg	NA	1.55E+03	NA	ND					1.50E-02					ND					ND				

Table 5-1

Surface Soil Analytical Results
Former Printing Plant, Building 143
Fort McClellan, Calhoun County, Alabama

Analyses performed by Quanterra Environmental Services using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods, including Update III methods where applicable.

[a] Bkg - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in Science Applications International Corporation (1998), *Final Background Metals Survey Report, Fort McClellan, Alabama,* July. For SVOCs, value listed is the background screening criterion 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 levels (SSSLs) and ecological screening values (ESVs) as given in IT Corporation (2000), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama,* July.

B - Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero).
J - Result is greater than stated method detection limit but less than or equal to specified reporting limit.
mg/kg - Milligrams per kilogram
NA - Not available
ND - Not detected
Qual - Data validation qualifier

Table 5-2

Subsurface Soil Analytical Results
Former Printing Plant, Building 143
Fort McClellan, Calhoun County, Alabama

(Page 1 of 2)

			Parcel:	UST-37				UST-37				UST-37			
			Sample Location:	UST-37-GP01				UST-37-GP02				UST-37-MW01			
			Sample Number:	CJ0028				CJ0029				CJ0027			
			Sample Date:	9-Nov-99				10-Nov-99				10-Nov-99			
			Sample Depth (Feet):	10-12				10-12				9-10			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS															
Lead (only)	mg/kg	3.85E+01	4.00E+02	1.21E+01	NV			1.02E+01	NV			6.20E+00	NV		
Aluminum	mg/kg	1.36E+04	7.80E+03	NR				NR				NR			
Arsenic	mg/kg	1.83E+01	4.26E-01	NR				NR				NR			
Barium	mg/kg	2.34E+02	5.47E+02	NR				NR				NR			
Beryllium	mg/kg	8.60E-01	9.60E+00	NR				NR				NR			
Calcium	mg/kg	6.37E+02	NA	NR				NR				NR			
Chromium	mg/kg	3.83E+01	2.32E+01	NR				NR				NR			
Cobalt	mg/kg	1.75E+01	4.68E+02	NR				NR				NR			
Copper	mg/kg	1.94E+01	3.13E+02	NR				NR				NR			
Iron	mg/kg	4.48E+04	2.34E+03	NR				NR				NR			
Lead	mg/kg	3.85E+01	4.00E+02	NR				NR				NR			
Magnesium	mg/kg	7.66E+02	NA	NR				NR				NR			
Manganese	mg/kg	1.36E+03	3.63E+02	NR				NR				NR			
Mercury	mg/kg	7.00E-02	2.33E+00	NR				NR				NR			
Nickel	mg/kg	1.29E+01	1.54E+02	NR				NR				NR			
Potassium	mg/kg	7.11E+02	NA	NR				NR				NR			
Selenium	mg/kg	4.70E-01	3.91E+01	NR				NR				NR			
Sodium	mg/kg	7.02E+02	NA	NR				NR				NR			
Thallium	mg/kg	1.40E+00	5.08E-01	NR				NR				NR			
Vanadium	mg/kg	6.49E+01	5.31E+01	NR				NR				NR			
Zinc	mg/kg	3.49E+01	2.34E+03	NR				NR				NR			
SEMIVOLATILE ORGANIC COMPOUNDS															
Fluoranthene	mg/kg	NA	3.09E+02	ND				ND				ND			
VOLATILE ORGANIC COMPOUNDS															
1,1,2,2-Tetrachloroethane	mg/kg	NA	3.13E+00	NR				NR				NR			
Acetone	mg/kg	NA	7.76E+02	NR				NR				NR			
Bromomethane	mg/kg	NA	1.09E+01	NR				NR				NR			
Methylene chloride	mg/kg	NA	8.41E+01	NR				NR				NR			
p-Cymene	mg/kg	NA	1.55E+03	NR				NR				NR			
BTEX															
Benzene	mg/kg	NA	2.17E+01	1.30E-02	NV			ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	2.50E-02	NV			ND				ND			
Xylene, Total	mg/kg	NA	1.55E+04	5.90E-02	NV			1.40E-02	NV			1.10E-02	NV		

Table 5-2

Subsurface Soil Analytical Results
Former Printing Plant, Building 143
Fort McClellan, Calhoun County, Alabama

Parameter	Units	BKG[a]	SSSL[b]	PPMP-138 PPMP-138-GP01 KE0002 19-Jan-99 6-8 Result	Qual	>BKG	>SSSL	PPMP-138 PPMP-138-GP02 KE0004 19-Jan-99 2-3 Result	Qual	>BKG	>SSSL	PPMP-138 PPMP-138-GP03 KE0006 19-Jan-99 9-12 Result	Qual	>BKG	>SSSL	PPMP-138 PPMP-138-GP04 KE0010 19-Jan-99 6-9 Result	Qual	>BKG	>SSSL
METALS																			
Lead (only)	mg/kg	3.85E+01	4.00E+02	NR				NR				NR				NR			
Aluminum	mg/kg	1.36E+04	7.80E+03	1.18E+04			YES	7.54E+03				7.74E+03				1.28E+04			YES
Arsenic	mg/kg	1.83E+01	4.26E-01	8.40E+00			YES	3.00E+00			YES	3.00E+00			YES	5.00E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	2.33E+01	J			4.05E+01				1.46E+01	J			2.51E+01			
Beryllium	mg/kg	8.60E-01	9.60E+00	4.30E-01	J			3.60E-01	J			1.90E-01	J			2.80E-01	J		
Calcium	mg/kg	6.37E+02	NA	3.57E+02	J			4.26E+02	J			1.07E+03		YES		1.07E+03		YES	
Chromium	mg/kg	3.83E+01	2.32E+01	4.11E+01	J	YES	YES	8.30E+00	J			1.14E+01	J			1.64E+01	J		
Cobalt	mg/kg	1.75E+01	4.68E+02	1.10E+00	J			2.40E+00	J			7.10E-01	J			1.80E+00	J		
Copper	mg/kg	1.94E+01	3.13E+02	2.67E+01		YES		7.20E+00				4.70E+00				7.50E+00			
Iron	mg/kg	4.48E+04	2.34E+03	6.95E+04		YES	YES	8.91E+03			YES	1.48E+04			YES	2.24E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.39E+01	J			1.02E+01	J			5.50E+00	J			9.20E+00	J		
Magnesium	mg/kg	7.66E+02	NA	1.22E+02	J			1.95E+02	J			2.59E+02	J			4.34E+02	J		
Manganese	mg/kg	1.36E+03	3.63E+02	2.02E+01				8.92E+01				1.25E+01	J			7.02E+01			
Mercury	mg/kg	7.00E-02	2.33E+00	4.20E-02	J			3.70E-02	J			4.20E-02	J			7.60E-02	J	YES	
Nickel	mg/kg	1.29E+01	1.54E+02	1.40E+00	J			3.00E+00	J			1.80E+00	J			2.90E+00	J		
Potassium	mg/kg	7.11E+02	NA	3.54E+02	J			1.19E+02	J			2.29E+02	J			3.51E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	3.50E+00		YES		7.70E-01		YES		7.80E-01		YES		8.40E-01		YES	
Sodium	mg/kg	7.02E+02	NA	8.04E+01	B			6.74E+01	B			6.94E+01	B			8.58E+01	B		
Thallium	mg/kg	1.40E+00	5.08E-01	7.00E-01	B		YES	ND				ND				ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	5.09E+01	J			1.46E+01	J			2.12E+01	J			3.41E+01	J		
Zinc	mg/kg	3.49E+01	2.34E+03	2.01E+01				3.26E+01				8.30E+00				2.14E+01			
SEMIVOLATILE ORGANIC COMPOUNDS																			
Fluoranthene	mg/kg	NA	3.09E+02	ND				4.10E-02	J			ND				ND			
VOLATILE ORGANIC COMPOUNDS																			
1,1,2,2-Tetrachloroethane	mg/kg	NA	3.13E+00	ND				3.20E-03	J			ND				ND			
Acetone	mg/kg	NA	7.76E+02	1.20E-02	B			4.20E-01	J			9.10E-03	B			1.20E-01	J		
Bromomethane	mg/kg	NA	1.09E+01	2.60E-03	B			2.10E-03	B			1.80E-03	B			2.10E-03	B		
Methylene chloride	mg/kg	NA	8.41E+01	3.60E-03	B			2.70E-03	B			2.10E-03	B			2.90E-03	B		
p-Cymene	mg/kg	NA	1.55E+03	ND				4.80E-02				ND				ND			
BTEX																			
Benzene	mg/kg	NA	2.17E+01	NR				NR				NR				NR			
Ethylbenzene	mg/kg	NA	7.77E+02	NR				NR				NR				NR			
Xylene, Total	mg/kg	NA	1.55E+04	NR				NR				NR				NR			

Analyses performed by Quanterra Environmental Services using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods, including Update III methods where applicable.

[a] Bkg - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in Science Applications International Corporation (1998), *Final Background Metals Survey Report, Fort McClellan, Alabama*, July.

[b] Residential human health site-specific screening levels (SSSLs) as given in IT Corporation (2000), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama*, July.

NR - Not requested. UST-37 samples were analyzed for BTEX, PAHs, and lead. PPMP-138 samples were analyzed for TAL metals and TCL VOCs/SVOCs.

BTEX - Benzene, toluene, ethyl benzene, and total xylenes

NA - Not available

mg/kg - Milligrams per kilogram

ND - Not detected

NV - Not validated

Qual - Data validation qualifier

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

J - Result is greater than stated method detection limit but less than or equal to specified reporting limit.

Table 5-3

Groundwater Analytical Results
Former Printing Plant, Building 143
Fort McClellan, Calhoun County, Alabama

			Parcel:	UST-37				PPMP-138			
			Sample Location:	UST-37-MW01				PPMP-138-MW01			
			Sample Number:	CJ3029				KE3001			
			Sample Date:	1-Feb-00				22-Feb-99			
Parameter	Units	BKG[a]	SSSL[b]	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS											
Aluminum	mg/L	2.34E+00	1.56E+00	NR				4.21E-02	J		
Arsenic	mg/L	1.78E-02	4.00E-05	NR				1.14E-02			YES
Barium	mg/L	1.27E-01	1.10E-01	NR				3.94E-02	J		
Calcium	mg/L	5.65E+01	NA	NR				3.93E+01			
Iron	mg/L	7.04E+00	4.69E-01	NR				2.34E+00			YES
Magnesium	mg/L	2.13E+01	NA	NR				1.42E+01			
Manganese	mg/L	5.81E-01	7.35E-02	NR				1.25E-01	J		YES
Potassium	mg/L	7.20E+00	NA	NR				1.16E+01		YES	
Sodium	mg/L	1.48E+01	NA	NR				1.47E+01			
SEMIVOLATILE ORGANIC COMPOUNDS											
4-Methylphenol	mg/L	NA	7.68E-03	NR				2.80E-02	J		YES
VOLATILE ORGANIC COMPOUNDS											
1,4-Dichlorobenzene	mg/L	NA	1.75E-03	NR				4.90E-03	J		YES
Methylene chloride	mg/L	NA	7.85E-03	NR				3.80E-03	J		
Toluene	mg/L	NA	2.59E-01	NR				2.40E-02	J		
p-Cymene	mg/L	NA	2.26E-01	NR				8.00E-02	J		
BTEX											
Benzene	mg/L	NA	1.40E-03	3.80E-04	NV			NR			

Analyses performed by Quanterra Environmental Services using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods, including Update III methods where applicable.

[a] Bkg - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in Science Applications International Corporation (1998), *Final Background Metals Survey Report, Fort McClellan, Alabama*, July.

[b] Residential human health site-specific screening levels (SSSLs) as given in IT Corporation (2000), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama*, July.

BTEX - Benzene, toluene, ethyl benzene, and total xylenes

NR - Not requested. UST-37 samples were analyzed for BTEX, PAHs, and lead. PPMP-138 samples were analyzed for TAL metals and TCL VOCs/SVOCs.

NA - Not available

mg/kg - Milligrams per kilogram

ND - Not detected

NV - Not validated

Qual - Data validation qualifier

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

J - Result is greater than stated method detection limit but less than or equal to specified reporting limit.

None of the VOCs detected in surface soils was present at a concentration exceeding residential human health SSSLs or ESVs.

Semivolatile Organic Compounds. Fourteen SVOCs, thirteen PAH compounds and bis (2-ethylhexyl)phathalate, were detected in surface soil samples collected at the Former Printing Plant, Building 143. Anthracene, benzo(g,h,i)perylene, benzo(k)fluoranthene, carbazole, fluorene, and indeno(1,2,3cd)pyrene were detected only in the sample collected at PPMP-138-GP01, which contained all of the detected SVOCs. No SVOCs were detected in the sample collected from location PPMP-138-GP03.

The concentration of benzo(a)pyrene at sample locations PPMP-138-GP01 and PPMP-138-GP04 exceeded residential human health SSSLs and ESVs. Also at these sample locations, three other SVOCs (fluoranthene, phenanthrene, and pyrene) were detected at concentrations exceeding ESVs but were below residential human health SSSLs. None of the PAH concentrations exceeded the established background screening values.

5.2 Subsurface Soil Sample Results

Seven subsurface soil samples were collected for chemical analyses at the Former Printing Plant, Building 143. Three subsurface soil samples are associated with the UST closure assessment at Parcel 37(7) and were analyzed for lead, PAH compounds, and BTEX compounds. The four subsurface soil samples associated with the SI at Parcel 138(7) were analyzed for TAL metals, TCL VOCs, and TCL SVOCs. All 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 background concentrations, as presented in Table 5-2.

Metals. Lead was detected at all three sample locations associated with the UST at Parcel 37(7); however, none of the concentrations exceeded residential human health SSSLs. Twenty metals were detected in the four subsurface soil samples from the Former Printing Plant, Parcel 138(7), borings. Beryllium, chromium, cobalt, lead, magnesium, mercury, nickel, potassium, and vanadium results were flagged with a “J” data qualifier signifying that the results were greater than the MDL but less than the RL. Barium and calcium results were also flagged with a “J” data qualifier in two of the four samples. The sodium and thallium results were flagged with a “B” data qualifier signifying that sodium and thallium were also detected in an associated laboratory or field blank sample.

Aluminum, arsenic, chromium, iron, and thallium were detected in subsurface soils at concentrations exceeding residential human SSSLs. With the exception of chromium and iron in one of the samples, the concentrations of these metals were below background concentrations. Chromium and iron concentrations exceeded residential human health SSSLs and background concentrations at sample location PPMP-138-GP01. However, the chromium concentration (41.1 mg/kg) was within the range of chromium background values (5.5 to 55 mg/kg) determined by SAIC (1998). The iron concentration was within the same order of magnitude as the background concentration.

Volatile Organic Compounds. Benzene, ethyl benzene, and total xylenes were detected at all three subsurface soil samples associated with the UST at Parcel 37(7). Five VOCs, including 1,1,2,2-tetrachloroethane, acetone, bromomethane, methylene chloride, and p-cymene, were detected in four subsurface soil samples collected at the Former Printing Plant, Parcel 138(7). The bromomethane and methylene chloride 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 results were flagged with a "B" data qualifier or a "J" data qualifier signifying that the results were greater than the MDL but less than the RL. The VOCs p-cymene and 1,1,2,2-tetrachloroethane were each detected in only one sample; the 1,1,2,2-tetrachloroethane result was flagged with a "J" data qualifier. The VOC p-cymene, detected in the subsurface sample from PPMP-138-GP02, was also detected in the surface soil sample from PPMP-138-GP02.

None of the VOCs detected in subsurface soils was present at a concentration exceeding residential human health SSSLs.

Semivolatile Organic Compounds. No PAH compounds were detected in the three subsurface soil samples associated with the UST at Parcel 37(7). Fluoranthene was detected at one subsurface soil sample location (PPMP-138-GP02) at the Former Printing Plant, Parcel 138(7). The fluoranthene result was flagged with a "J" data qualifier signifying that the result was greater than the MDL but less than the RL. SVOCs were not detected at any of the other subsurface soil sample locations.

The fluoranthene concentration at sample location PPMP-138-GP02 was below the residential human health SSSL.

5.3 Groundwater Sample Results

One existing well (PPMP-138-MW01) and one permanent well (UST-37-MW01) were sampled at the Former Printing Plant, Building 143, at the locations shown on Figure 3-1. Analytical results were compared to residential human health SSSLs and background concentrations, as presented in Table 5-3. As discussed in Section 4.2.2, water sampled from PPMP-138-MW01 likely represents surface water present in the UST backfill material. Groundwater sample from well UST-37-MW01 was analyzed for lead, PAH compounds, and BTEX. The groundwater sample from well PPMP-138-MW01 was analyzed for TAL metals, TCL VOCs, and TCL SVOCs.

Metals. Lead was not detected in the groundwater sample for UST-37-MW01. Nine metals were detected in well PPMP-138-MW01. The aluminum, barium, and manganese results were flagged with a "J" data qualifier signifying that the results were greater than the MDL but less than the RL.

Arsenic, iron, and manganese concentrations exceeded residential human health SSSLs but were within background concentrations.

Volatile Organic Compounds. Benzene was the only VOC detected in the groundwater sample from well UST-37-MW01. Its concentration was below the residential human health SSSL. Four VOCs, including 1,4-dichlorobenzene, methylene chloride, p-cymene, and toluene, were detected in the groundwater sample from PPMP-138-MW01. The VOC results were flagged with a "J" data qualifier signifying that the results were greater than the MDL but less than the RL.

The concentration of 1,4-dichlorobenzene (0.0049 milligrams per liter [mg/L]) exceeded the residential human health SSSL for cancer but was below the noncancer SSSL.

Semivolatile Organic Compounds. No PAH compounds were detected in the groundwater sample collected from UST-37-MW01. The SVOC 4-methylphenol was the only SVOC detected in groundwater from PPMP-138-MW01. The 4-methylphenol result was flagged with a "J" data qualifier signifying that the result was greater than the MDL but less than the RL.

The concentration of 4-methylphenol (0.028 mg/L) exceeded the residential human health SSSL (0.00769 mg/L).

6.0 Summary and Conclusions and Recommendations

In accordance with Contract Number DACA21-96-D-0018, Task Order CK05, IT completed an SI at the Former Printing Plant, Building 143 Basement, Parcel 138(7) and the UST closure assessment for the UST at the Administrative Building, Building 143, Parcel 37(7), at Fort McClellan (FTMC), Calhoun County, Alabama. These investigations were conducted to determine whether chemical constituents are present at the Former Printing Plant, Building 143, and, if present, whether the concentrations would present an unacceptable risk to human health or the environment. Investigation activities at the Former Printing Plant, Building 143, consisted of the sampling and analyses of four surface soil samples, seven subsurface soil samples, and two groundwater samples. In addition, one permanent well was installed in the residuum groundwater zone to facilitate groundwater sample collection and to provide site-specific geological and hydrogeological characterization information.

The analytical results indicate that metals, VOCs, and SVOCs were detected in the environmental media sampled. The analytical results were compared to human health SSSLs and ESVs. These 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. Additionally, metals results exceeding the SSSLs and ESVs were compared to media-specific background metals concentrations to determine if the metals detected in site media are within natural background concentrations (SAIC, 1998). SVOC concentrations exceeding SSSLs and ESVs in surface and depositional soil samples were compared to PAH background screening values where available (IT, 2000b). The findings are summarized as follows:

- Aluminum, arsenic, iron, and manganese were detected in surface soils at concentrations exceeding residential human health SSSLs and ESVs but within background concentrations. Six metals (beryllium, copper, lead, mercury, selenium, and zinc) were detected in surface soil samples at concentrations exceeding ESVs and background concentrations but below residential human health SSSLs. The PAH benzo(a)pyrene was detected at two surface soil sample locations (PPMP-138-GP01 and PPMP-138-GP04) at concentrations exceeding its residential human health SSSL and ESV. Three other PAHs (fluoranthene, phenanthrene, and pyrene) were also detected at sample locations PPMP-138-GP01 and PPMP-138-GP04 at concentrations exceeding ESVs but were below residential human health SSSLs. None of the detected PAH concentrations exceeded their background screening values.

- Chromium and iron were detected in one subsurface soil sample (PPMP-138-GP01) at concentrations exceeding residential human health SSSLs and background concentrations. Aluminum, arsenic, and thallium were detected in subsurface soils at concentrations exceeding residential human health SSSLs but within background concentrations. VOCs and SVOCs were not detected in subsurface soil samples at concentrations exceeding residential human health SSSLs.

- Arsenic, iron, and manganese were detected in groundwater at concentrations exceeding residential human health SSSLs but within background concentrations. The VOC 1,4-dichlorobenzene and the SVOC 4-methylphenol were detected in the groundwater sample at concentrations exceeding residential human health SSSLs.

Although several metals and four PAHs were detected in site media at concentrations exceeding ecological ESVs, the potential impact to ecological receptors is expected to be minimal. This is based on the limited impacted area and the future land use of the Former Printing Plant, Building 143, which is expected to be residential based on the *Fort McClellan Comprehensive Reuse Plan* (FTMC, 1997). Under this land-use scenario, substantial ecological habitat is not expected to be present and, consequently, is expected to be minimally impacted.

The potential impact to human receptors is also expected to be minimal. With the exception of chromium and iron in one subsurface soil sample (PPMP-138-GP01), metals concentrations exceeding residential human health SSSLs were within background concentrations for all other samples and thus do not pose an unacceptable risk to future human receptors. The chromium concentration at sample location PPMP-138-GP01 was within the range of chromium values determined by SAIC. The iron concentration at sample location PPMP-138-GP01 was within the same order of magnitude as the background concentration. Although the concentration of benzo(a)pyrene exceeded the residential human health SSSL at two surface soil sample locations, the compound was not detected in any of the subsurface samples collected at the Former Printing Plant, Building 143. Given the limited impacted area, benzo(a)pyrene is not expected to pose an unacceptable risk to human health in the residential land use scenario.

Concentrations of 4-methylphenol and 1,4-dichlorobenzene exceeded residential human health SSSLs in the groundwater sample; however, the water sampled from the well likely represents surface water runoff present in the UST backfill material. The VOC 1,4-dichlorobenzene is mainly used as an insecticide and may have been used at Building 143 in this capacity. The SVOC 4-methylphenol is a common industrial chemical used in manufacturing including metal parts cleaning and may have been used in the Former Printing Plant in this capacity. None of the surface or subsurface soil samples show detected quantities of either 1,4-dichlorobenzene or 4-

methylphenol, however. Furthermore, because well PPMP-138-MW01 will not serve as a potable water source, the potential for human exposure is expected to be extremely low.

Based on the results of the SI, past operations at the Former Printing Plant, Building 143, do not appear to have adversely impacted the environment. Furthermore, the metals and organic compounds detected in site media do not pose an unacceptable risk to human health and the environment in the residential land-use scenario. Therefore, IT recommends “No Further Action” with unrestricted reuse with regards to hazardous, toxic, and radiological waste at the Former Printing Plant, Building 143, for both Parcels 138(7) and 37(7).

7.0 References

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ATTACHMENT 1

LIST OF ABBREVIATIONS AND ACRONYMS

List of Abbreviations and Acronyms

Abs	skin absorption
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
AEL	airborne exposure limit
AL	Alabama
amb.	amber
ANAD	Anniston Army Depot
APT	armor-piercing tracer
ASP	Ammunition Supply Point
ASR	Archives Search Report
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
B	analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero)
BCT	BRAC Cleanup Team
BFB	bromofluorobenzene
bgs	below ground surface
bkg	background
bls	below land surface
BOD	biological oxygen demand
BRAC	Base Realignment and Closure
Braun	Braun Intertec Corporation
BTEX	benzene, toluene, ethylbenzene, and xylenes
BTOC	below top of casing
BZ	breathing zone; 3-quinuclidinyl benzilate
C	ceiling limit value
Ca	carcinogen
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
CFC	chlorofluorocarbon
CG	cyanogen chloride
ch	inorganic clays of high plasticity
CK	carbonyl 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
COC	chain of custody
COE	Corps of Engineers
Con	skin or eye contact
CRL	certified reporting limit
CRZ	contamination reduction zone
CS	ortho-chlorobenzylidene-malononitrile
CSEM	conceptual site exposure model
ctr.	container
CWA	chemical warfare agent
CWM	chemical warfare material; clear, wide mouth
CX	dichloroformoxime
3D	3D International Environmental Group
D	duplicate
DANC	decontamination agent, non-corrosive
°C	degrees Celsius
°F	degrees Fahrenheit
DDT	dichlorodiphenyltrichloroethane
DEP	depositional soil
DI	deionized
DIMP	di-isopropylmethylphosphonate
DMMP	dimethylmethylphosphonate
DOD	U.S. Department of Defense
DP	direct-push
DPDO	Defense Property Disposal Office
DQO	data quality objective
DRMO	Defense Reutilization and Marketing Office
DS	deep (subsurface) soil
DS2	Decontamination Solution Number 2
E&E	Ecology and Environment, Inc.
EBS	environmental baseline survey
Elev.	elevation
EM	electromagnetic
EM31	Geonics Limited EM31 Terrain Conductivity Meter
EM61	Geonics Limited EM61 High-Resolution Metal Detector
EOD	explosive and ordnance disposal
EODT	explosive and 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.
ESV	ecological screening value
Exp.	explosives
E-W	east to west
EZ	exclusion zone
FB	field blank
FD	field duplicate
FedEx	Federal Express, Inc.
FFE	field flame expedient
Fil	filtered
Flt	filtered
FMP 1300	Former Motor Pool 1300
Frtn	fraction
FS	field split
ft	feet
ft/ft	feet per foot
FTA	Fire Training Area
FTMC	Fort McClellan
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
GFAA	graphite furnace atomic absorption
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
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
ICS	interference check sample
ID	inside diameter
IDL	instrument detection limit
IDLH	immediately dangerous to life or health

IDW	investigation-derived waste
IMPA	isopropylmethyl phosphonic acid
in.	inch
Ing	ingestion
Inh	inhalation
IP	ionization potential
IPS	International Pipe Standard
IRDMIS	Installation Restoration Data Management Information System
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
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
LT	less than the certified reporting limit
max	maximum
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
msl	mean sea level
MtD3	Montevallo shaly, silty clay loam, 10 to 40 percent slopes , severely eroded
mV	millivolts
MW	monitoring well
N/A	not applicable; not available
NAD	North American Datum
NAD83	North American Datum of 1983
NAVD88	North American Vertical Datum of 1988
ND	not detected
NE	no evidence
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
No.	number
NOAA	National Oceanic and Atmospheric Administration
NR	not requested
ns	nanosecond
N-S	north to south
nT	nanotesla
NTU	nephelometric turbidity unit
O&G	oil and grease
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
OSHA	Occupational Safety and Health Administration
OWS	oil/water separator
oz	ounce
PAH	polynuclear aromatic hydrocarbon
Pb	lead
PCB	polychlorinated biphenyl
PCE	perchloroethene
PDS	Personnel Decontamination Station
PEL	permissible exposure limit
Pest.	pesticide
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
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
RCRA	Resource Conservation and Recovery Act
ReB3	Rarden silty clay loams
REG	field sample
REL	recommended exposure limit
RFA	request for analysis
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
SFSP	site-specific field sampling plan
SGF	standard grade fuels
SHP	installation-wide safety and health plan
SI	site investigation
SL	standing liquid
sm	silty sands; sand-silt mixtures
SOP	standard operating procedure
sp	poorly graded sands; gravelly sands
SP	sump pump
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
SSSL	site-specific screening level
STB	supertropical bleach
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 *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*
SZ	support zone
TAL	target analyte list
TAT	turn around time
TB	trip blank
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 compounds
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
UJ	not detected above reporting limit; result should be estimated
USACE	U.S. Army Corps of Engineers
USAEC	U.S. Army Environmental Center
USAEHA	U.S. Army Environmental Hygiene Agency
USAMCLS	U.S. Army Chemical 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
UST	underground storage tank
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- [diisoproplaminoethyl]-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

APPENDIX A

SAMPLE COLLECTION LOGS

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138-011999-QSIC

Site: Former Printing Plant, Bldg 143 Basement (P
Location Code: PPMP-138-GP01
Sample Number: KE0001
Sample Name: PPMP-138-GP01-SS-KE0001-REG
Sampling Method: HA

Collection Date: 1-19-99
Collection Time: 1640

Start Depth: Ø
End Depth: 1

Sample Team: Messer, Allen

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES	N	B	1	8	oz	CWM

Comments: Collected w/ss hand auger, NOT ON ASPHALT

Sketch Location:

Logged BY / Date: _____

Reviewed BY / Date: _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: **774645 Fort McClellan**
Manager: Jeanie Yacoub

RFA / COC Number: 138-011999-QSIL

Site: **Former Printing Plant, Bldg 143 Basement (P**
Location Code: **PPMP-138-GP01**
Sample Number: **KE0001-MS**
Sample Name: **PPMP-138-GP01-SS-KE0001-MS**
Sampling Method: **HA**

Collection Date: 1-19-99
Collection Time: 1640

Start Depth: Ø
End Depth: 1

Sample Team: Messer, Allen

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES_	N	B	1	8	oz	CWM

Comments:

Sketch Location:

Logged BY / Date: _____

Reviewed BY / Date: _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138-011999-QSC

Site: Former Printing Plant, Bldg 143 Basement (P
Location Code: PPMP-138-GP01
Sample Number: KE0001-MSD
Sample Name: PPMP-138-GP01-SS-KE0001-MSD
Sampling Method: HA

Collection Date: 1-19-99
Collection Time: 1640
Start Depth: 0
End Depth: 1

Sample Team: Messan, Allen

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES	N	B	1	8	oz	CWM

Comments:

Sketch Location:

Logged BY / Date: _____

Reviewed BY / Date: _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138-011999-&SK

Site: Former Printing Plant, Bldg 143 Basement (P
Location Code: PPMP-138-GP01
Sample Number: KE0002
Sample Name: PPMP-138-GP01-DS-KE0002-REG
Sampling Method: DP

Collection Date: 1-19-91
Collection Time: ~~1755~~ 1655
Start Depth: 6
End Depth: 8

Sample Team: Messar, Allen

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES_	N	B	1	8	oz	CWM

Comments: Refusal @ 8

Sketch Location:

Logged BY / Date: _____

Reviewed BY / Date: _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138-011999-QSK

Site: Former Printing Plant, Bldg 143 Basement (P
Location Code: PPMP-138-GP02
Sample Number: KE0003
Sample Name: PPMP-138-GP02-SS-KE0003-REG
Sampling Method: HA

Collection Date: 1-19-99
Collection Time: 1710
Start Depth: Ø
End Depth: 1

Sample Team: Messer, Allen

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES	3	N	A	3	5	g	EnCore
METALS-S		N	B	1	8	oz	CWM
SEMIVOLATILES		N	B	1	8	oz	CWM

Comments: SS HAND Auger, NOT ON ASPHALT

Sketch Location:

Logged BY / Date: _____

Reviewed BY / Date: _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138-011999-QSK

Site: Former Printing Plant, Bldg 143 Basement (P
Location Code: PPMP-138-GP02
Sample Number: KE0004
Sample Name: PPMP-138-GP02-DS-KE0004-REG
Sampling Method: DP

Collection Date: 1-18-99
Collection Time: 1720

Start Depth: 2
End Depth: 3

Sample Team: Messer, Allen

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES	N	B	1	8	oz	CWM

Comments: Refusal @ 6

Sketch Location:

Logged BY / Date: _____

Reviewed BY / Date: _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138-011999-DSK

Site: Former Printing Plant, Bldg 143 Basement (P
Location Code: PPMP-138-GP03
Sample Number: KE0005
Sample Name: PPMP-138-GP03-SS-KE0005-REG
Sampling Method: ~~HA~~ DP

Collection Date: 1-19-99
Collection Time: 1315

Start Depth: Ø
End Depth: 1

Sample Team: Messer, Allen

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES_	N	B	1	8	oz	CWM

Comments:

Sketch Location:

Logged BY / Date: _____

Reviewed BY / Date: _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138-011999-QSK

Site: Former Printing Plant, Bldg 143 Basement (F
Location Code: PPMP-138-GP03
Sample Number: KE0006
Sample Name: PPMP-138-GP03-DS-KE0006-REG
Sampling Method: DP

Collection Date: 1-19-99
Collection Time: 1330
Start Depth: 9
End Depth: 12

Sample Team: Messer, Allen

Analytical Suite	Flt	Frtn	Containers Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES	N	B	1	8	oz	CWM

Comments:

Sketch Location:

Logged BY / Date: _____

Reviewed BY / Date: _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138-011999-QSK

Site: Former Printing Plant, Bldg 143 Basement (P
Location Code: PPMP-138-GP03
Sample Number: KE0007
Sample Name: PPMP-138-GP03-DS-KE0007-FD
Sampling Method: DP

Collection Date: 1-19-99
Collection Time: 1330
Start Depth: 9
End Depth: 12
Sample Team: Messer, Allen

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES_	N	B	1	8	oz	CWM

Comments:

Sketch Location:

Logged BY / Date: _____

Reviewed BY / Date: _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138-011999-SADL

Site: Former Printing Plant, Bldg 143 Basement (P
Location Code: PPMP-138-GP03
Sample Number: KE0008
Sample Name: PPMP-138-GP03-DS-KE0008-FS
Sampling Method: DP

Collection Date: 1-19-99
Collection Time: 1330

Start Depth: 9
End Depth: ~~10~~ 12

Sample Team: Messer, Allen

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES	N	B	1	8	oz	CWM

Comments:

Sketch Location:

Logged BY / Date: _____ *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138 - 011999-QSK

Site: Former Printing Plant, Bldg 143 Basement (P
Location Code: PPMP-138-GP04
Sample Number: KE0009
Sample Name: PPMP-138-GP04-SS-KE0009-REG
Sampling Method: ~~HA~~ DP

Collection Date: 1-19-99
Collection Time: 1430
Start Depth: Ø
End Depth: 1

Sample Team: Messer, Allen

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES_	N	B	1	8	oz	CWM

Comments: under asphalt

Sketch Location:

Logged BY / Date: _____ *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138-011999-QSK

Site: Former Printing Plant, Bldg 143 Basement (P
Location Code: PPMP-138-GP04
Sample Number: KE0010
Sample Name: PPMP-138-GP04-DS-KE0010-REG
Sampling Method: DP

Collection Date: 1-19-99
Collection Time: 1445
Start Depth: 6
End Depth: 9

Sample Team: Messer, Allen

Analytical Suite	Containers Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	5	g	EnCore
METALS-S	N	B	1	8	oz	CWM
SEMIVOLATILES_	N	B	1	8	oz	CWM

Comments: Refusal @ 9'

Sketch Location:

Logged BY / Date: _____

Reviewed BY / Date: _____

INTERNATIONAL TECHNOLOGY CORPORATION

ENTERED 4/9/99

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138-022299-QSK

Site: Former Printing Plant, Bldg 143 Basement (F
Location Code: PPMP-138-MW01
Sample Number: KE3001
Sample Name: PPMP-138-MW01-GW-KE3001-REG
Sampling Method: PP

Collection Date: 02/22/99
Collection Time: 1230
Start Depth: NA
End Depth: NA

Sample Team: C. Short, J. Brown

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	40	mL	VOA Vial
SEMIVOLATILES_	N	B	1	1	L	Amb. Glass
METALS-W	N	C	1	1	L	HDPE

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity ~~(mS/cm)~~ µS/cm	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
	1130	6.65	-86.5	7.20	522	698.4	1.02	15.25	0.1
	1139	6.65	-125.6	7.25	492	112.9	0.57	15.22	2.5
	1149	6.65	-136.2	7.26	513	231.2	0.52	15.32	5.0
	1200	6.65	-141.2	7.27	524	2.8	0.52	15.23	7.5
	1212	6.65	-144.9	7.27	547	3.6	0.54	15.38	10.0
	1225	6.65	-146.2	7.28	562.0	0.6	0.62	15.38	13.0
Sample:									

Diesel odor was in purged well water. NO PID readings
VOCs and Metals preserved to pH<2

Logged BY / Date: [signature] 02/22/99

Reviewed BY / Date: [signature] 2/23/99

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138-022289-QSK

Site: Former Printing Plant, Bldg 143 Basement (P
Location Code: PPMP-138-MW01
Sample Number: KE3001-MS
Sample Name: PPMP-138-MW01-GW-KE3001-MS
Sampling Method: PP

Collection Date: 07/22/99
Collection Time: 1230

Start Depth: NA
End Depth: NA

Sample Team: C. Short
J. Brown

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	40	mL	VOA Vial
SEMIVOLATILES_	N	B	1	1	L	Amb. Glass
METALS-W	N	C	1	1	L	HDPE

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
			See KE3001-RG6 log.						
Sample:									

Logged BY / Date: [signature] 07/22/99

Reviewed BY / Date: [signature] 2/23/99

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138-022299-QSK

Site: Former Printing Plant, Bldg 143 Basement (F
Location Code: PPMP-138-MW01
Sample Number: KE3001-MSD
Sample Name: PPMP-138-MW01-GW-KE3001-MSD
Sampling Method: PP

Collection Date: 02/22/99
Collection Time: 1230
Start Depth: NA
End Depth: NA

Sample Team: C. Short
J. Brow

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	40	mL	VOA Vial
SEMIVOLATILES_	N	B	1	1	L	Amb. Glass
METALS-W	N	C	1	1	L	HDPE

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
		See		KE3001-IDEG					10gal.
Sample:									

Logged BY / Date: 02/22/99
Reviewed BY / Date: 2/23/99

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138-022299-0SK

Site: Former Printing Plant, Bldg 143 Basement (F
Location Code: PPMP-138-~~MW02~~ MW01
Sample Number: KE3003
Sample Name: PPMP-138-~~MW02~~ MW01-GW-KE3003-~~FD~~
Sampling Method: PP

Collection Date: 02/22/99
Collection Time: 1230
Start Depth: NA
End Depth: NA

Sample Team: C. Short, J. Brown

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	40	mL	VOA Vial
SEMIVOLATILES_	N	B	1	1	L	Amb. Glass
METALS-W	N	C	1	1	L	HDPE

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
		See KE3001-REG log.							
Sample:									

PPMP-138-MW02 contained no water. Dry well. Sample collected from PPMP-138-MW01.

Logged BY / Date: 02/22/99 *Reviewed BY / Date:* 7/23/99

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 138-022299-OSK

Site: Former Printing Plant, Bldg 143 Basement (P
Location Code: PPMP-138-~~MW02~~ MW01
Sample Number: KE3004
Sample Name: PPMP-138-~~MW02~~ MW01-GW-KE3004-FS
Sampling Method: PP

Collection Date: 02/22/99
Collection Time: 1230
Start Depth: NA
End Depth: NA

Sample Team: C. Short, J. Brow

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
VOLATILES_3	N	A	3	40	mL	VOA Vial
SEMIVOLATILES_	N	B	1	1	L	Amb. Glass
METALS-W	N	C	1	1	L	HDPE

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
		See KE3001-PCG log.							
Sample:									

PPMP-138-MW02 contained no water. Dry well. Sample collected from PPMP-138-MW01.

Logged BY / Date: 02/22/99 *Reviewed BY / Date:* 2/23/99

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 37-111099-QST

Site: **Underground Storage Tanks (Parcel 37)**
Location Code: **UST-37-MW01**
Sample Number: **CJ0027**
Sample Name: **UST-37-MW01-DS-CJ0027-REG**
Sampling Method: **DP**

Collection Date: 11/10/99
Collection Time: 0827

Start Depth: 9
End Depth: 10

Sample Team: James Dendy

Containers

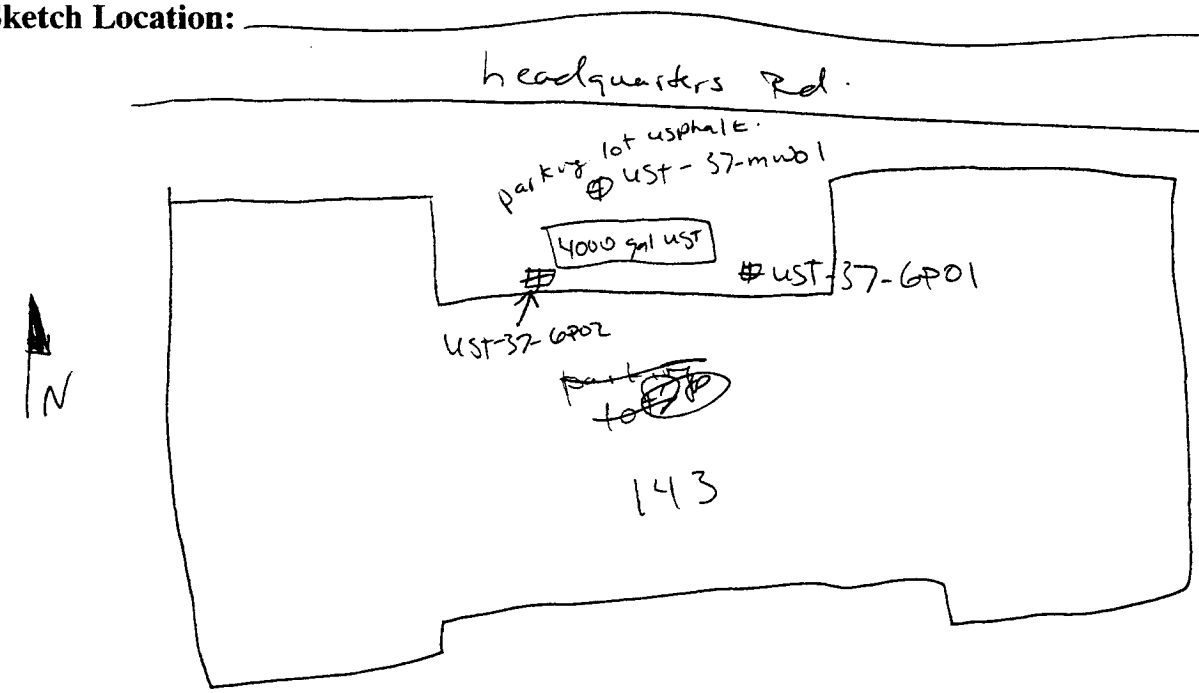
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
LEAD	N	A	1	8	oz	CWM
PAH	N	A	1	8	oz	CWM
BTEX	N	B	3	5	g	EnCore

ERPIMS Values:

Sacode:
Lot Control#:
Sample Matrix:

Comments: PID= 0.0

Sketch Location:



Logged BY / Date: James Dendy

Reviewed BY / Date: 11/8/99

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 37-110999-QST

Site: **Underground Storage Tanks (Parcel 37)**

Location Code: **UST-37-GP01**

Sample Number: **CJ0028**

Sample Name: **UST-37-GP01-DS-CJ0028-REG**

Sampling Method: **DP**

Collection Date: 11/09/99

Collection Time: 1625

Start Depth: 10

End Depth: 12

Sample Team: James Hendly

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
LEAD	N	A	1	8	oz	CWM
PAH	N	A	1	8	oz	CWM
BTEX	N	B	3	5	g	EnCore

ERPIMS Values:

Sacode:

Lot Control#:

Sample Matrix:

Comments: PID= 0.0

Sketch Location:

SCL Sample CJ0027

Logged BY / Date: 11/09/99

Reviewed BY / Date: 11/8/99

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 780567 Fort McClellan

Manager: Jeanne Yacoub

RFA / COC Number: 37-111099-QST

Site: **Underground Storage Tanks (Parcel 37)**
Location Code: **UST-37-GP02**
Sample Number: **CJ0029**
Sample Name: **UST-37-GP02-DS-CJ0029-REG**
Sampling Method: **DP**

Collection Date: 11/10/99
Collection Time: 0810

Start Depth: 10
End Depth: 12

Sample Team: James Dendy

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
LEAD	N	A	1	8	oz	CWM
PAH	N	A	1	8	oz	CWM
BTEX	N	B	3	5	g	EnCore

ERPIMS Values:

Sacode:
Lot Control#:
Sample Matrix:

Comments:

Sketch Location:

See Sample CJ0027

Logged BY / Date: [signature] 11/10/99

Reviewed BY / Date: [signature] 11/18/99

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 783149 Fort McClellan, SAD TERC

Manager: Jeanne Yacoub

RFA / COC Number: 37-020100-QSK

Site: **Underground Storage Tanks (Parcel 37)**
Location Code: **UST-37-MW01**
Sample Number: **CJ3029**
Sample Name: **UST-37-MW01-GW-CJ3029-REG**
Sampling Method: **SP**

Collection Date: 020100
Collection Time: 1235

Start Depth: 0
End Depth: 0

Sample Team: Allen

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
LEAD	N	A	1	500	mL	HDPE
BTEX	N	B	3	40	mL	VOA Vial
PAH	N	C	1	1	L	Amb. Glass
EXTRA	N	D	1	1	L	Amb Glass

PURGE RECORD:

Initial	Time(24hr)	DepthtoWater (ft)	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)	Purge Volume (gal)
	1044								
	1048	15.11	220	5.16	.077	62.4	1.42	10.4	0
	1113	16.32	280	5.01	.074	177	0.80	16.8	4.1
	1139	18.00	305	5.10	.073	87.1	0.35	17.9	8.2
	1200	17.61	300	5.09	.073	33.8	0.33	17.8	12.3
	1223	17.82	305	5.10	.075	15.3	0.33	17.7	16.4
Sample:									

BTEX TAKEN W/ TEFLON Bailer

NO PID

DTW	TD	WC	PV
13.9	38.6	24.7	4.1

- Lead BTEX Ph less than 2

Logged BY / Date: D.K. Lee 02-01-00 *Reviewed BY / Date:* 02/02/00

CHAIN OF CUSTODY FORMS

H9A200155

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 138-011999-QSK

Project Number: 774645

Project Name: Fort McClellan

Sample Coordinator: John W. Andrew

Turnaround Time: Normal

Samples Shipment Date: 20-JAN-99

Lab Destination: Quanterra Environmental Services - Knoxville

Lab Contact: John Reynolds

Project Contact: Randy McBride

Carrier/Waybill No.: Quality Express/ Courier

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Special Instructions: ~~NO 7/MB~~ NONE

Possible Hazard Indentification:

Non-hazard | | Flammable | | Skin Irritant | | Poison B | | Unknown |X|

Sample Disposal:

Return to Client | | Disposal by Lab |X| Archive (mos.)

1. Relinquished By (Signature/Affiliation) IT Corp	Date: 01/20/99 Time: 0830	1. Received By (Signature/Affiliation)	Date: 1 20 99 Time: 0830
2. Relinquished By (Signature/Affiliation)	Date: 1 20 99 Time: 1310	2. Received By (Signature/Affiliation) Justin Wells	Date: 1-20-99 Time: 1310
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: NONE

Rec'd at 2°C
Custody Seals Intact
JW 1-20-99

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
KE0001	PPMP-138-GP01-SS-KE0001-REG	19-JAN-99	16:40	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KE0001	PPMP-138-GP01-SS-KE0001-REG	19-JAN-99	16:40	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KE0001-MS	PPMP-138-GP01-SS-KE0001-MS-MS	19-JAN-99	16:40	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KE0001-MS	PPMP-138-GP01-SS-KE0001-MS-MS	19-JAN-99	16:40	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KE0001-MSD	PPMP-138-GP01-SS-KE0001-MSD-MS	19-JAN-99	16:40	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KE0001-MSD	PPMP-138-GP01-SS-KE0001-MSD-MS	19-JAN-99	16:40	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		

95

H9A200155

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 138-011999-QSK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
KE0002	PPMP-138-GP01-DS-KE0002-REG	19-JAN-99	16:55	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KE0002	PPMP-138-GP01-DS-KE0002-REG	19-JAN-99	16:55	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KE0003	PPMP-138-GP02-SS-KE0003-REG	19-JAN-99	17:10	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KE0003	PPMP-138-GP02-SS-KE0003-REG	19-JAN-99	17:10	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KE0004	PPMP-138-GP02-DS-KE0004-REG	19-JAN-99	17:20	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KE0004	PPMP-138-GP02-DS-KE0004-REG	19-JAN-99	17:20	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KE0005	PPMP-138-GP03-SS-KE0005-REG	19-JAN-99	13:15	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KE0005	PPMP-138-GP03-SS-KE0005-REG	19-JAN-99	13:15	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KE0006	PPMP-138-GP03-DS-KE0006-REG	19-JAN-99	13:30	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KE0006	PPMP-138-GP03-DS-KE0006-REG	19-JAN-99	13:30	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KE0007	PPMP-138-GP03-DS-KE0007-FD	19-JAN-99	13:30	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KE0007	PPMP-138-GP03-DS-KE0007-FD	19-JAN-99	13:30	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KE0009	PPMP-138-GP04-SS-KE0009-REG	19-JAN-99	14:30	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KE0009	PPMP-138-GP04-SS-KE0009-REG	19-JAN-99	14:30	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KE0010	PPMP-138-GP04-DS-KE0010-REG	19-JAN-99	14:45	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KE0010	PPMP-138-GP04-DS-KE0010-REG	19-JAN-99	14:45	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 138-011999-SADL

Project Number: 774645

Project Name: Fort McClellan

Sample Coordinator: John W. Andrew

Turnaround Time: Normal

Samples Shipment Date: 19-JAN-99

Lab Destination: USACE South Atlantic Division Laboratory

Lab Contact: Blaise Willis

Project Contact: Randy McBride

Carrier/Waybill No.: Fed Ex/7901 9201 2748

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Special Instructions: NONE

Possible Hazard Indentification:
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation) IT Corp	Date: 01/19/99 Time: 1430	1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: NONE

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
KE0008	PPMP-138-GP03-DS-KE0008-FS	19-JAN-99	13:30	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KE0008	PPMP-138-GP03-DS-KE0008-FS	19-JAN-99	13:30	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		

Quote #25476

H9B230174

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 138-022299-QSK

Project Number: 774645

Project Name: Fort McClellan

Sample Coordinator: John W. Andrew

Turnaround Time: Normal

Samples Shipment Date: 23-FEB-99

Lab Destination: Quanterra Environmental Services - Knoxville

Lab Contact: John Reynolds

Project Contact: Randy McBride

Carrier/Waybill No.: Quality Express/ Courier PK121382

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:
Non-hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [X]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 2/23/99 Time: 0830	1. Received By (Signature/Affiliation)	Date: 2-23-99 Time: 0830
2. Relinquished By (Signature/Affiliation)	Date: 2-23-99 Time: 1315	2. Received By (Signature/Affiliation)	Date: 2-23-99 Time: 13:15
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:

Rec'd at 20c
Custody Seals Intact
2-23-99

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
022299-TB	FIELDQC-BW-022299-TB-TB	22-FEB-99	07:00	40 ml VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KE3001	PPMP-138-MW01-GW-KE3001-REG	22-FEB-99	12:30	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KE3001	PPMP-138-MW01-GW-KE3001-REG	22-FEB-99	12:30	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KE3001	PPMP-138-MW01-GW-KE3001-REG	22-FEB-99	12:30	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		
KE3001-MS	PPMP-138-MW01-GW-KE3001-MS-MS	22-FEB-99	12:30	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KE3001-MS	PPMP-138-MW01-GW-KE3001-MS-MS	22-FEB-99	12:30	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		
KE3001-MS	PPMP-138-MW01-GW-KE3001-MS-MS	22-FEB-99	12:30	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KE300	PPMP-138-MW01-GW-KE3001-MSD-M	22-FEB-99	12:30	40 mL VOA Vial		HCl<pH 2	Volatiles by 8260B	N		

0057

H9B230174

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 138-022299-QSK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
KE3001-MSD	PPMP-138-MW01-GW-KE3001-MSD-M	22-FEB-99	12:30	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KE3001-MSD	PPMP-138-MW01-GW-KE3001-MSD-M	22-FEB-99	12:30	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		
KE3003	PPMP-138-MW01-GW-KE3003-FD	22-FEB-99	12:30	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KE3003	PPMP-138-MW01-GW-KE3003-FD	22-FEB-99	12:30	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		
KE3003	PPMP-138-MW01-GW-KE3003-FD	22-FEB-99	12:30	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 138-022299-SADL

Project Number: 774645

Project Name: Fort McClellan

Sample Coordinator: John W. Andrew

Turnaround Time: Normal

Samples Shipment Date: 23-FEB-99

Lab Destination: USACE South Atlantic Division Laboratory

Lab Contact: Blaise Willis

Project Contact: Randy McBride

Carrier/Waybill No.: Fed Ex/7902 0871 1011

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Special Instructions:

Possible Hazard Indentification:
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation) IT Corp	Date: 2/23/99 Time: 1500	1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
022299-TB2	FIELDQC-BW-022299-TB2-TB	22-FEB-99	07:00	40 ml VOA Vial	2	HCl<pH 2	Volatiles by 8260B	N		
KE3004	PPMP-138-MW01-GW-KE3004-FS	22-FEB-99	12:30	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KE3004	PPMP-138-MW01-GW-KE3004-FS	22-FEB-99	12:30	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KE3004	PPMP-138-MW01-GW-KE3004-FS	22-FEB-99	12:30	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 37-110999-QST

Project Number: 783149
Project Name: Fort McClellan
Sample Coordinator: Jason Brown
Turnaround Time: NORMAL

Samples Shipment Date: 10-NOV-99
ab Destination: QUANTERRA - TAMPA
Lab Contact: Michelle Lersch
Project Contact: Randy McBride
Carrier/Waybill No.: Fed Ex/792514303730

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37932

Special Instructions: NONE

Possible Hazard Indentification:
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] EFLOR	Date: 11/10/99 Time: 1330	1. Received By (Signature/Affiliation) Carol McNulty	Date: 11/11/99 Time: 1000
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: NONE

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CJ0028	UST-37-GP01-DS-CJ0028-REG	09-NOV-99	16:25	8 oz CWM	1	None except cool to 4 C	Lead by 6010B, PAH's by 8310	N		
CJ0028	UST-37-GP01-DS-CJ0028-REG	09-NOV-99	16:25	5 g EnCore	3	None except cool to 4 C	BTEX by 8021B	N		

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 37-111099-QST

Project Number: 783149
Project Name: Fort McClellan
Sample Coordinator: Jason Brown
Turnaround Time: NORMAL

Samples Shipment Date: 10-NOV-99
ab Destination: QUANTERRA - TAMPA
Lab Contact: Michelle Lersch
Project Contact: Randy McBride
Carrier/Waybill No.: Fed Ex/792514303730

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37932

Special Instructions: NONE

Possible Hazard Indentification:
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 11/10/99 Time: 1330	1. Received By (Signature/Affiliation) Carol McNulty	Date: 11/11/99 Time: 1000
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: NONE

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CJ0027	UST-37-MW01-DS-CJ0027-REG	10-NOV-99	08:27	8 oz CWM	1	None except cool to 4 C	Lead by 6010B, PAH's by 8310	N		
CJ0027	UST-37-MW01-DS-CJ0027-REG	10-NOV-99	08:27	5 g EnCore	3	None except cool to 4 C	BTEX by 8021B	N		
CJ0029	UST-37-GP02-DS-CJ0029-REG	10-NOV-99	08:10	8 oz CWM	1	None except cool to 4 C	Lead by 6010B, PAH's by 8310	N		
CJ0029	UST-37-GP02-DS-CJ0029-REG	10-NOV-99	08:10	5 g EnCore	3	None except cool to 4 C	BTEX by 8021B	N		

H0B020174

IT CORPORATION
A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 37-020100-QSK

Project Number: 783149
Project Name: Fort McClellan, SAD TERC
Sample Coordinator: Jason Brown
Turnaround Time: NORMAL

Samples Shipment Date: 02 FEB 0200
Lab Destination: Quanterra Environmental Services - Knoxville
Lab Contact: John Reynolds
Project Contact: Randy McBride
Carrier/Waybill No.: Quality Express/Courier

Bill To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Report To: Duane Nielsen
312 Directors Drive
Knoxville TN 37923

Special Instructions: None

Possible Hazard Indentification:
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation) IT Corp	Date: 02/02/00 Time: 0917	1. Received By (Signature/Affiliation)	Date: 020200 Time: 0917
2. Relinquished By (Signature/Affiliation) QEC	Date: 020200 Time: 1450	2. Received By (Signature/Affiliation)	Date: 2-2-00 Time: 14:50
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: None

Recd at 2°C
Custody Seals Intact
GW 2-2-00

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
CJ3029	UST-37-MW01-GW-CJ3029-REG	01 FEB 2000	12:35	40 mL VOA Vial	3	HCl<pH 2	BTEX by 8021B	N		
CJ3029	UST-37-MW01-GW-CJ3029-REG	01 FEB 2000	12:35	1 L Amb. Glass	1	None except cool to 4 C	PAH's by 8310	N		
CJ3029	UST-37-MW01-GW-CJ3029-REG	01 FEB 2000	12:35	500 mL HDPE	1	HNO3<pH 2	Lead by 6010B	N		

APPENDIX B

BORING LOGS

HTRW DRILLING LOG

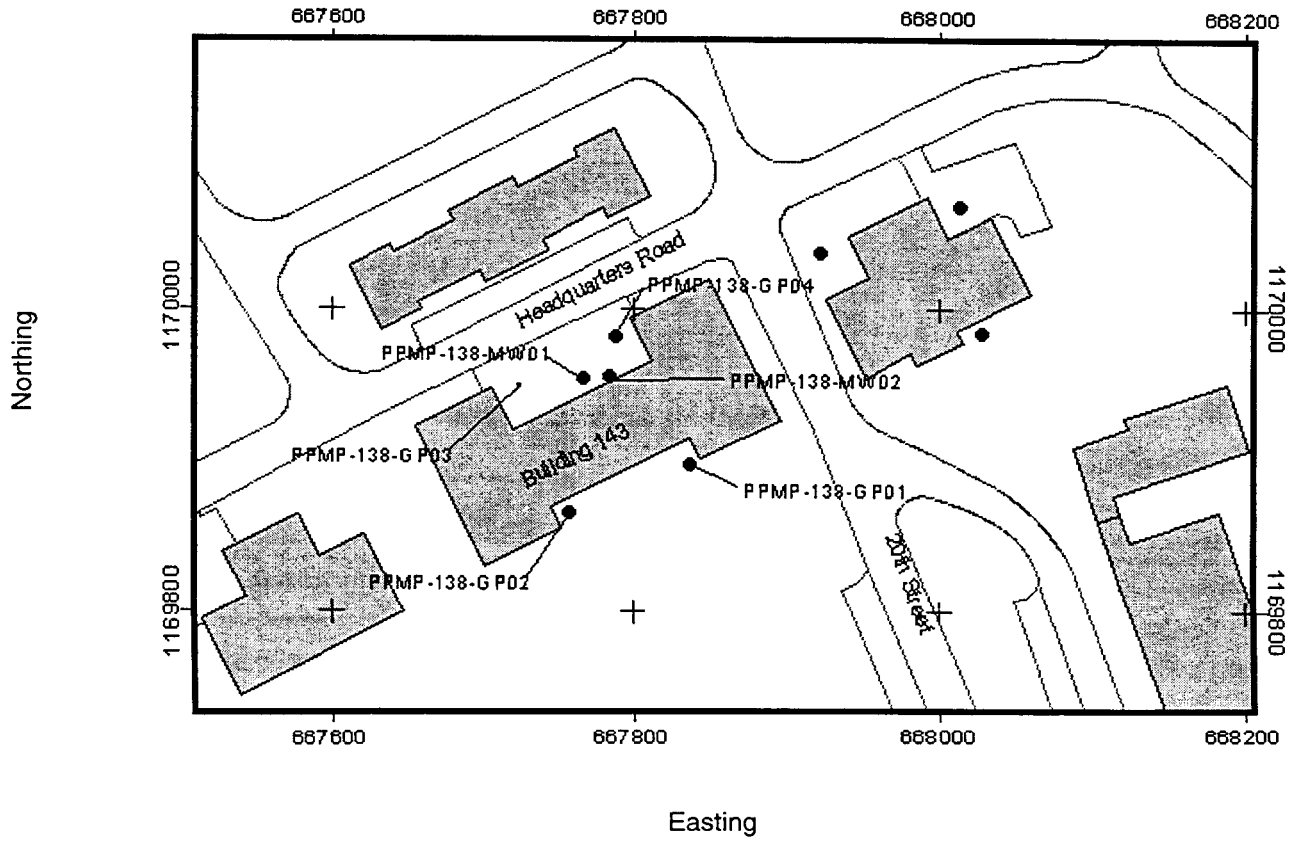
HOLE NUMBER PPMP-138-GP01

1. Company name: IT Corporation	2. Drill Subcontractor: TEG	Sheet 1 of 2 sheets

3. Project: Fort McClellan	4. Location: Printing Plant Building 143
5. Name of driller: Sammy McDaniel	6. Mfr designation of drill: Megaprobe
7. Sizes and types of drilling and sampling equipment: Direct Push 4' X 2" acetate-lined soil sampler	8. Hole location PPMP-138-GP01 9. Surface elevation: 796.34 10. Date started: 01/19/99 11. Date completed: 01/19/99
12. Overburden thickness: >8	15. Depth groundwater encountered:
13. Depth drilled into rock: NA	16. Depth to water and elapsed time after drilling completed:
14. Total depth of hole: 8	17. Other water level measurements (specify):

18. Geotechnical samples: no	Disturbed: NA	Undisturbed: NA		19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	SVOCs			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	23. Signature of inspector:		
	X	NA				

LOCATION SKETCH/COMMENTS:



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-138-GP01

Project: Fort McClellan | Geologist: J. MESSER | Sheet 2 of 2 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
	0	sm: Brown, SAND, some Silt.	sm		Organic Vapor = 0ppm		KE0001		rec 12"
	1	sm: Reddish brown, SAND, some Gravel, some Silt.	sm		Organic Vapor = 0ppm				rec 18"
795									
	2								
	3				Organic Vapor = 0ppm				rec 29"
	4	cl: Red to brown mottled CLAY.	cl						
	5								
	6				Organic Vapor = 0ppm				rec 16"
790									
	7						KE0002		
	8	WEATHERED SHALE: soft.	sh						Refusal, bottom of borehole - 8 ft.

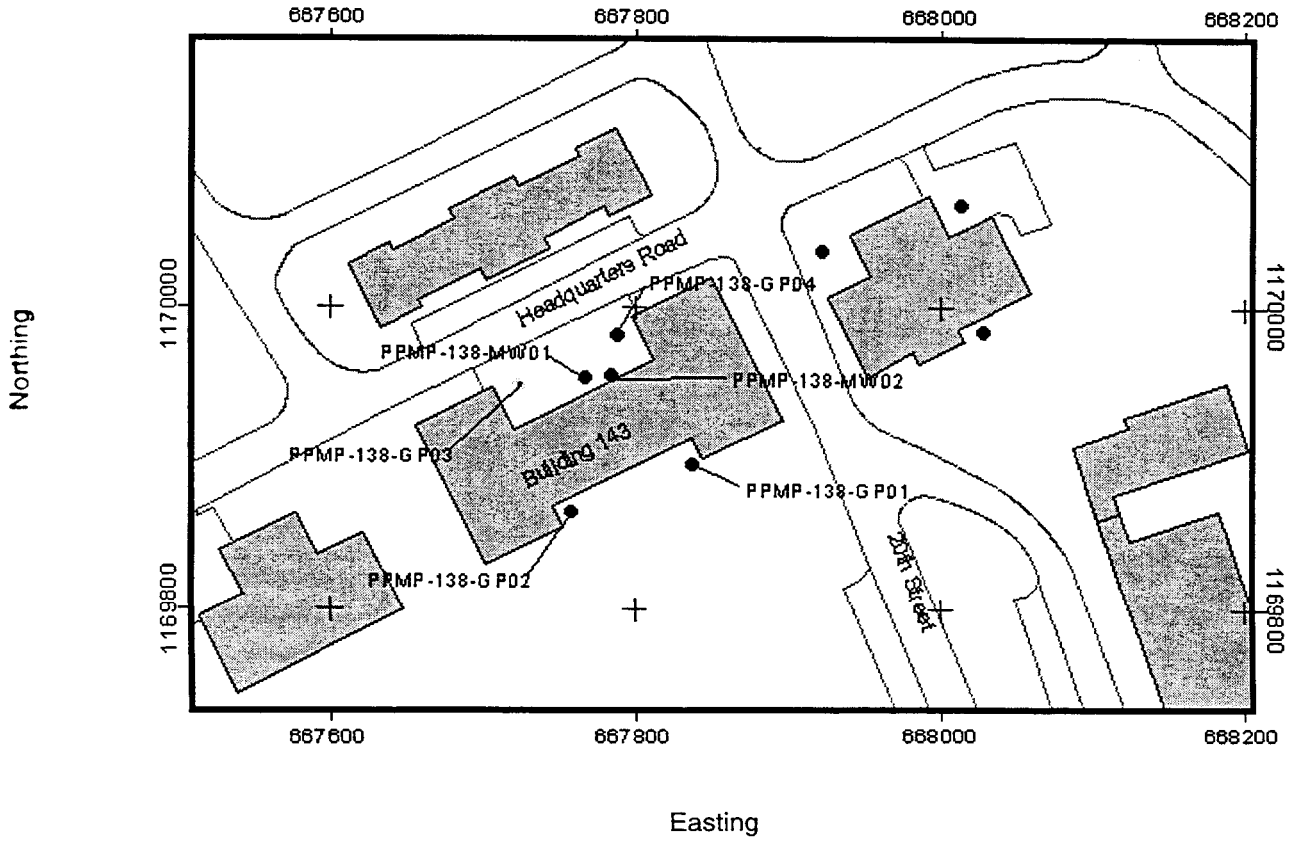
HTRW DRILLING LOG

HOLE NUMBER PPMP-138-GP02

1. Company name: IT Corporation	2. Drill Subcontractor: TEG	Sheet 1 of 2 sheets
3. Project: Fort McClellan	4. Location: Printing Plant Building 143	
5. Name of driller: Sammy McDaniel	6. Mfr designation of drill: Megaprobe	
7. Sizes and types of drilling and sampling equipment: Direct Push; 4' X 2" acetate-lined soil sampler	8. Hole location PPMP-138-GP02	
	9. Surface elevation: 796.21	
	10. Date started: 01/19/99	11. Date completed: 01/19/99
12. Overburden thickness: >6	15. Depth groundwater encountered: NA	
13. Depth drilled into rock: NA	16. Depth to water and elapsed time after drilling completed:	
14. Total depth of hole: 6	17. Other water level measurements (specify):	

18. Geotechnical samples: no	Disturbed: NA	Undisturbed: NA		19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	SVOCs			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	23. Signature of inspector:		
	X	NA				

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

Hole no.: PPMP-138-GP02

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-138-GP02

Project: Fort McClellan | Geologist: J. MESSER | Sheet 2 of 2 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
	0	sm: Reddish brown SAND, some Silt.	sm		Organic Vapor = 75.9ppm		KE0003		rec 12"
795	1								rec 22"
	2				Organic Vapor = 25.3ppm		KE0004		
	3								
		cl: Red brown mottled CLAY.	cl		Organic Vapor = 0ppm				rec 28"
	4								
	5								
		WEATHERED SHALE: soft.	sh						Refusal, bottom of borehole - 6ft.
	6								

HTRW DRILLING LOG

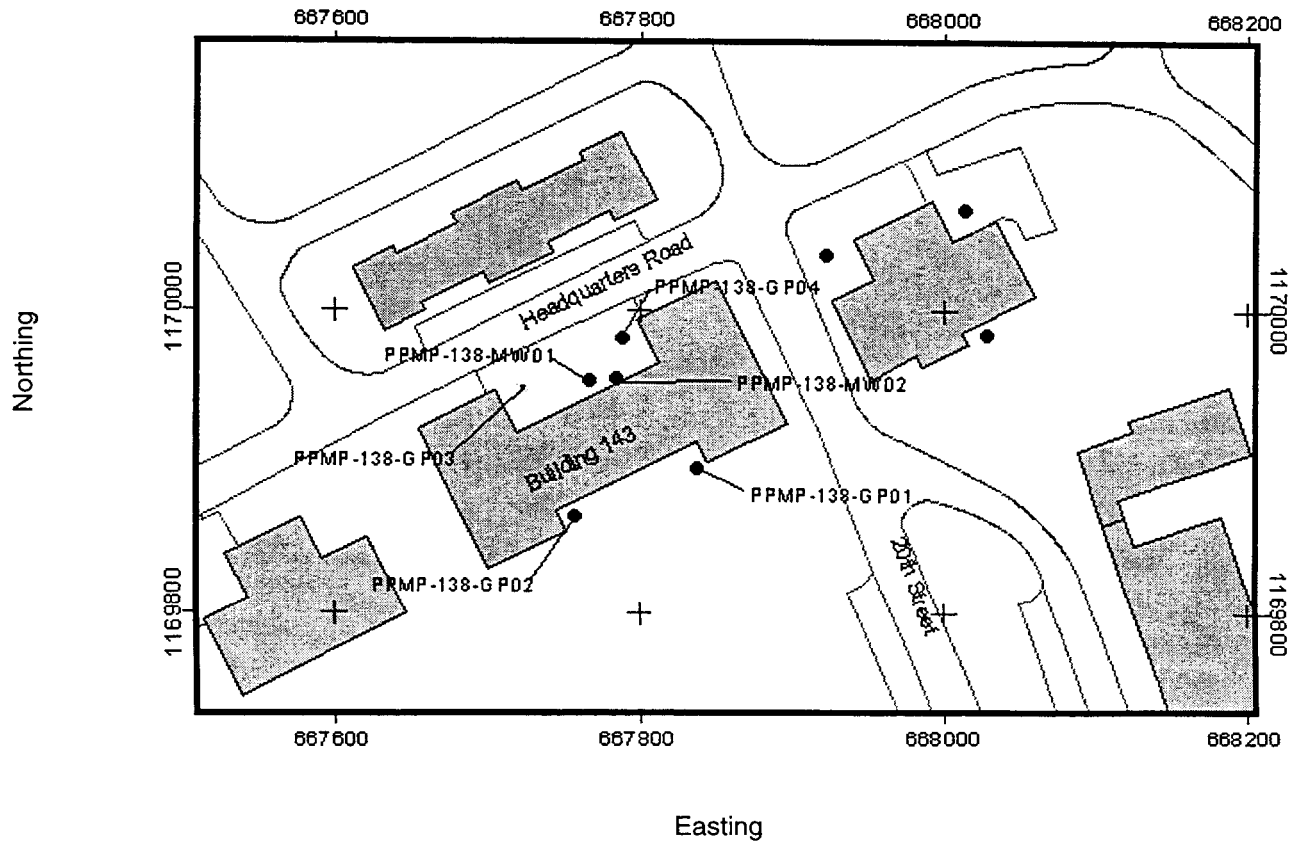
HOLE NUMBER PPMP-138-GP03

1. Company name: IT Corporation	2. Drill Subcontractor: TEG	Sheet 1 of 3 sheets

3. Project: Fort McClellan	4. Location: Printing Plant Building 143
5. Name of driller: Sammy McDaniel	6. Mfr designation of drill: Megaprobe
7. Sizes and types of drilling and sampling equipment: Direct Push 4' X 2" acetate-lined soil sampler	8. Hole location PPMP-138-GP03 9. Surface elevation: 793.59 10. Date started: 01/19/99 / 11. Date completed: 01/19/99
12. Overburden thickness: >12	15. Depth groundwater encountered: NA
13. Depth drilled into rock: NA	16. Depth to water and elapsed time after drilling completed:
14. Total depth of hole: 12	17. Other water level measurements (specify):

18. Geotechnical samples: no	Disturbed: NA	Undisturbed: NA		19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	SVOCs			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	23. Signature of inspector:		
	X	NA				

LOCATION SKETCH/COMMENTS:



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-138-GP03

Project: Fort McClellan | Geologist: J. MESSER | Sheet 2 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
	0	sm: Greenish gray SAND, some Silt.	sm		Organic Vapor = 0ppm		KE0005		rec 12"
	1				Organic Vapor = 0ppm				rec 18"
	2								
	3	ml: Reddish brown, sandy SILT, some Gravel.	ml		Organic Vapor = 0ppm				rec 14"
790									
	4								
	5								
	6				Organic Vapor = 0ppm				rec 28"
	7								
		cl: Red to brown mottled CLAY.							
	8								
785									
	9				Organic Vapor				rec 13"

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-138-GP03

Project: Fort McClellan | Geologist: J. MESSER | Sheet 3 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
	10	cl: Red to brown mottled CLAY, apparent red Sandstone layer approximately 1" thick at 11.0'.	cl		= 0ppm				rec 14"
							KE0006		
	11				Organic Vapor = 0ppm				
	12								Bottom of borehole - 12 ft

HTRW DRILLING LOG

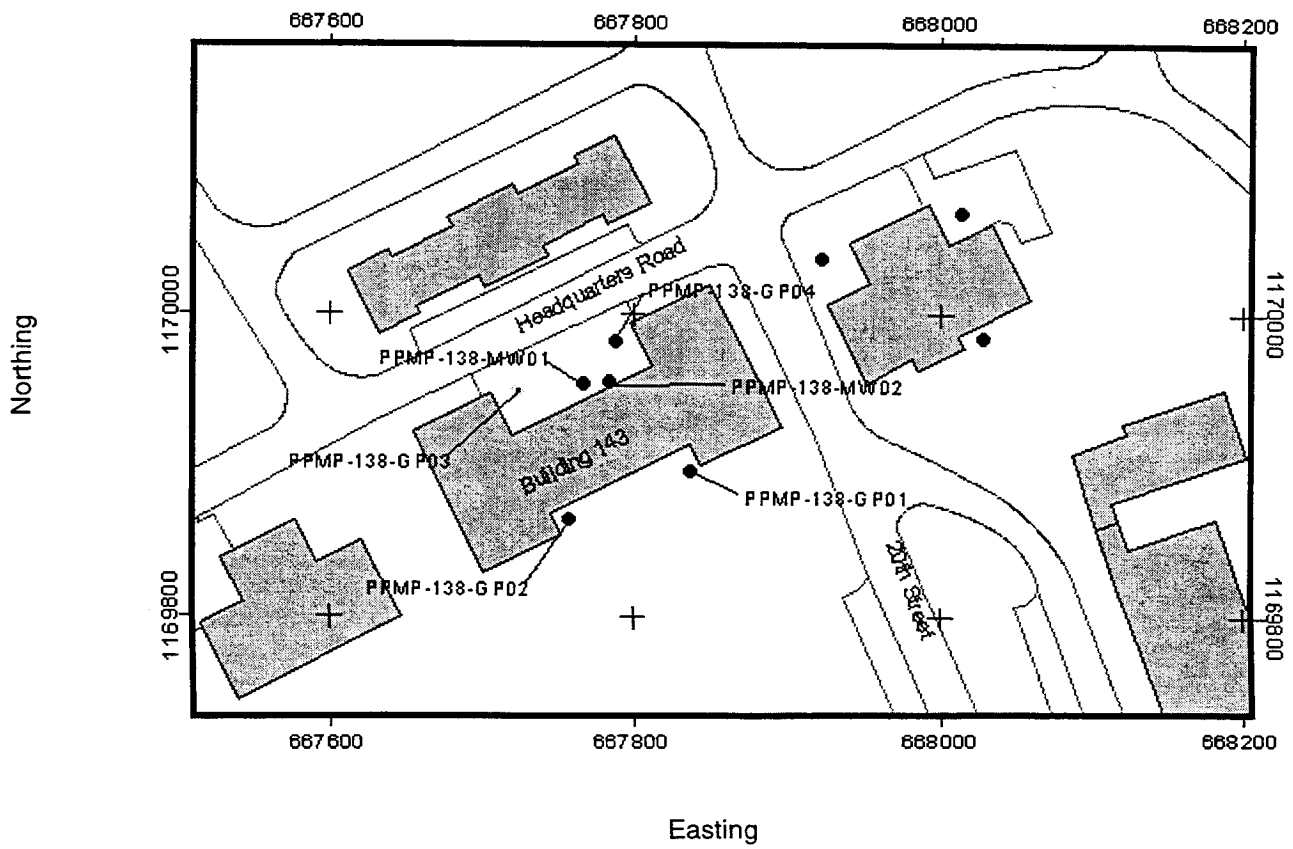
HOLE NUMBER PPMP-138-GP04

1. Company name: IT Corporation	2. Drill Subcontractor: TEG	Sheet 1 of 2 sheets

3. Project: Fort McClellan	4. Location: Printing Plant Building 143
5. Name of driller: Sammy McDaniel	6. Mfr designation of drill: Megaprobe
7. Sizes and types of drilling and sampling equipment: Direct Push 4' X 2" acetate-lined soil sampler	8. Hole location PPMP-138-GP04 9. Surface elevation: 793.69 10. Date started: 01/19/99 / 11. Date completed: 01/19/99
12. Overburden thickness: >9	15. Depth groundwater encountered: NA
13. Depth drilled into rock: NA	16. Depth to water and elapsed time after drilling completed:
14. Total depth of hole: 9	17. Other water level measurements (specify):

18. Geotechnical samples: no	Disturbed: NA	Undisturbed: NA		19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	SVOCs			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	23. Signature of inspector:		
	X	NA				

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

Hole no.: PPMP-138-GP04

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-138-GP04

Project: Fort McClellan | Geologist: J. MESSER | Sheet 2 of 2 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
	0	sm: Greenish red SAND, some Silt.	sm		Organic Vapor = 0ppm		KE0009		rec 12"
	1				Organic Vapor = 0ppm				rec 15"
	2								
	3	ml: Reddish brown, sandy SILT.	ml		Organic Vapor = 0ppm				rec 20"
790	4								
	5								
	6				Organic Vapor = 0ppm				rec 18"
	7	cl: Red to brown mottled CLAY.	cl				KE0010		
	8								
785	9	SANDSTONE: Red.	ss						Refusal, bottom of borehole - 9 ft.

HTRW DRILLING LOG

HOLE NUMBER UST-37-GP01

1. Company name: **IT Corporation**	2. Drill Subcontractor: TEG	Sheet 1 of 3 sheets

3. Project: Fort McClellan	4. Location: Parcel UST-37
5. Name of driller: Sammy McDaniels	6. Mfr designation of drill: Geoprobe
7. Sizes and types of drilling and sampling equipment: Direct Push 4'x2" acetate-lined sampler	8. Hole location UST-37-GP01 9. Surface elevation: 793.130 10. Date started: 11/09/99 — 11. Date completed: 11/02/99
12. Overburden thickness: >12	15. Depth groundwater encountered:
13. Depth drilled into rock:	16. Depth to water and elapsed time after drilling completed:
14. Total depth of hole: 12	17. Other water level measurements (specify):

18. Geotechnical samples:	Disturbed:		Undisturbed:	19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
			BTEX	PAH	Lead	N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	23. Signature of inspector:		
	X					

LOCATION SKETCH/COMMENTS:

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: UST-37-GP01

Project: Fort McClellan | Geologist: JAMES DENDY | Sheet 2 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
	0	ml: Brown SILT, and Clay, some Sand, some Gravel, wet.	ml		Organic Vapor = 0ppm				Rec. 24"/48"
	1								
	2								
790	3								
	4	ml: CLAY, some Silt, some Sand, some Gravel, brown.	ml		Organic Vapor = 0ppm				Rec. 36"/48"
	5								
	6								
	7								
785	8	cl: CLAY, some SILT, brown.			Organic Vapor = 0ppm				Rec. 48"/48"
	9								
	10								

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: UST-37-GP01

Project: Fort McClellan | Geologist: JAMES DENDY | Sheet 3 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
			cl						
	11						CJ0028		11
									End of boring is 12'
	12								12

HTRW DRILLING LOG

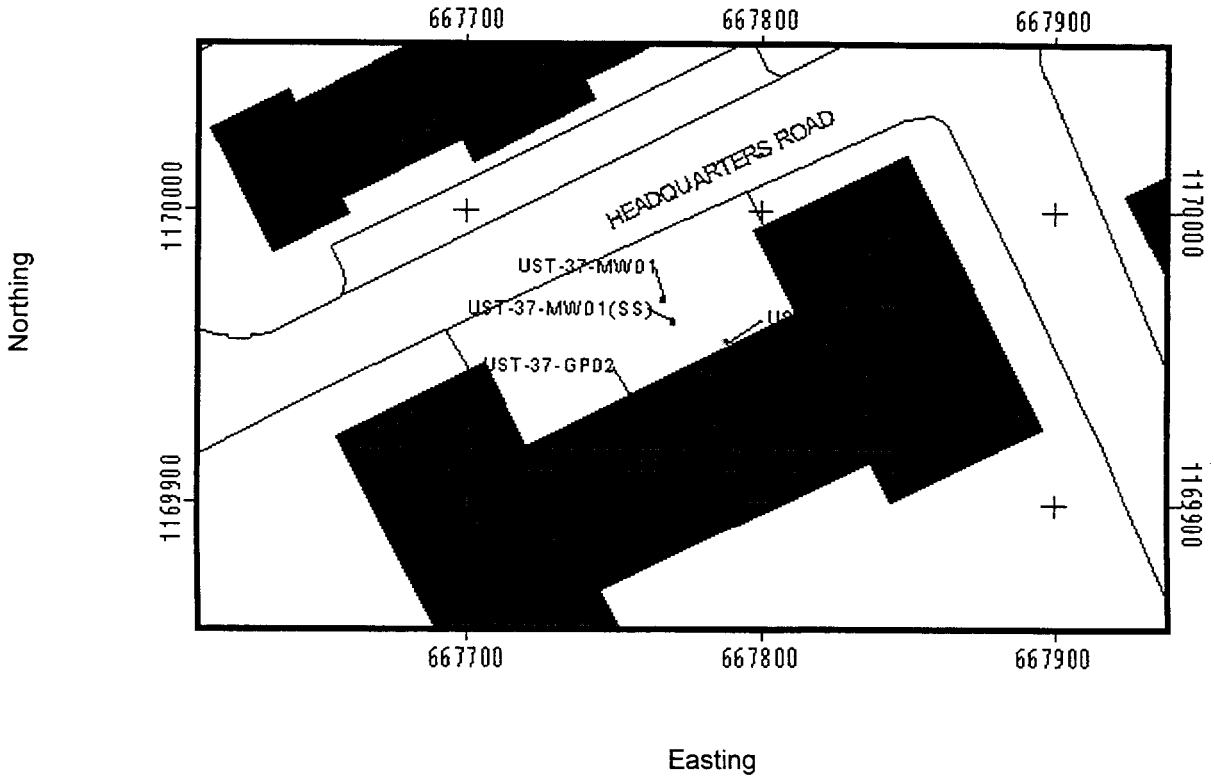
HOLE NUMBER UST-37-GP02

1. Company name: IT Corporation	2. Drill Subcontractor: TEG	Sheet 1 of 3 sheets

3. Project: Fort McClellan	4. Location: Parcel UST-37
5. Name of driller: Sammy McDaniels	6. Mfr designation of drill: Geoprobe
7. Sizes and types of drilling and sampling equipment: Direct Push 4'x2" acetate-lined sampler	8. Hole location UST-37-GP02
	9. Surface elevation: 793.561
	10. Date started: 11/10/99 / 11. Date completed: 11/10/99
12. Overburden thickness: >12	15. Depth groundwater encountered:
13. Depth drilled into rock:	16. Depth to water and elapsed time after drilling completed:
14. Total depth of hole: 12	17. Other water level measurements (specify):

18. Geotechnical samples:	Disturbed:		Undisturbed:	19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
			BTEX	PAH	Lead	N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	23. Signature of inspector:		
	X					

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan Hole no.: UST-37-GP02

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: UST-37-GP02

Project: Fort McClellan | Geologist: JAMES DENDY | Sheet 2 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
	0	ml: SILT, some Sand, some Clay, little Gravel, brown.	ml		Organic Vapor = 0ppm				Rec. 24"/48"
	1								
	2								
	3								
790									
	4	cl: CLAY, some Sand, some Silt, brown.	cl		Organic Vapor = 0ppm				Rec. 24"/48"
	5								
	6								
	7								
	8	cl: Wet, CLAY, brown.			Organic Vapor = 0ppm				Rec. 48"/48"
785									
	9								
	10								

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: UST-37-GP02

Project: Fort McClellan | Geologist: JAMES DENDY | Sheet 3 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
	11		cl				CJ0029		11
									End of boring is 12'
	12								12

HTRW DRILLING LOG

HOLE NUMBER UST-37-MW01

1. Company name: IT Corporation	2. Drill Subcontractor: TEG/ MILLER DRILLING CO.	Sheet 1 of 5 sheets

3. Project: Fort McClellan	4. Location: Parcel UST-37
5. Name of driller: McDaniels/Gobble	6. Mfr designation of drill: Geoprobe/CME-550
7. Sizes and types of drilling and sampling equipment: Direct Push, Hollow Stem Auger DP-2"x4' acetate-lined sampler HSA-5'x8.5"od augers, 2'x2" steel split spoons	8. Hole location UST-37-MW01 9. Surface elevation: 793.162 10. Date started: 11/10/99 11. Date completed: 11/10/99
12. Overburden thickness: >39	15. Depth groundwater encountered:
13. Depth drilled into rock:	16. Depth to water and elapsed time after drilling completed:
14. Total depth of hole: 39	17. Other water level measurements (specify):

18. Geotechnical samples:	Disturbed:	Undisturbed:		19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
			BTEX	PAH	Lead	N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	23. Signature of inspector:		
	X					

LOCATION SKETCH/COMMENTS:

Project: Fort McClellan

Hole no.: UST-37-MW01

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: UST-37-MW01

Project: Fort McClellan | Geologist: JAMES DENDY | Sheet 2 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
	0	cl: CLAY, some Sand, little Gravel.			Organic Vapor = 0ppm				Rec. 24"/48"
	1								
	2		cl						
790	3								
	4	cl: Wet, CLAY, some Gravel, some Silt.			Organic Vapor = 0ppm				Rec. 10"/48"
	5								
	6		cl						
	7								
785	8	cl: CLAY, some Silt.			Organic Vapor = 0ppm				Rec. 40"/48"
	9						CJ0027		
	10								

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: UST-37-MW01

Project: Fort McClellan | Geologist: JAMES DENDY | Sheet 3 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
	11		cl						
	12	NA: No recovery.							End of direct push boring.
780	13		NA						
	14	cl: Moist, light gray, slightly plastic, stiff CLAY, little light brown, moist, soft Silt, red oxidized Quartzite, weathered fragments (.5-1.5cm) diameter, at 15' bgs.			Organic Vapor = 0ppm				Rec. 24"/24" Blow 4 6 8 9
	15		cl						
	16	NA: No recovery.							
	17		NA						
775	18								
	19	NA: Dry, friable, platy, weathered, varved rose red and dark brown SHALE, nearly vertical bedding.			Organic Vapor = 0ppm				Rec. 24"/24" Blow 6 15 18 24
	20		NA						

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: UST-37-MW01

Project: Fort McClellan | Geologist: JAMES DENDY | Sheet 4 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
	21	NA: No recovery.							21
	22		NA						22
770	23								23
	24	NA: Dry friable, platy, dark brown to light brown and gray, weathered SHALE, little black oxidation throughout, nearly vertical bedding.			Organic Vapor = 0ppm				Rec. 24"/24" Blow 7 4 12 18 24
	25		NA						25
	26	NA: No recovery.							26
	27		NA						27
765	28								28
	29	NA: Wet, friable, platy, dark brown to light gray, weathered SHALE.			Organic Vapor = 0ppm				Rec. 24"/24" Blow 7 8 11 19 29
	30		NA						30

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: UST-37-MW01

Project: Fort McClellan | Geologist: JAMES DENDY | Sheet 5 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow count (g)	Remarks (h)
	31	NA: At 33' HSA cuttings become dark gray, moist, fissile, weathered SHALE.							
	32		NA						
760	33								
	34	NA: Moist, fissile, platy, hard, gray, weathered SHALE.			Organic Vapor = 0ppm				Rec. 4"/24" Blow 10/4
	35		NA						
	36	NA: HSA cuttings, moist, gray, fissile, weathered SHALE.			Organic Vapor = 0ppm				
	37		NA						
755	38								
	39								End of boring is 39'

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC	WELL NO: UST-37-MW01
LOCATION Anniston, AL	DRILLING METHOD: Hollow Stem Auger
CLIENT: USACE Mobile District	INSTALLATION DATE 12/02/99
CONTRACTOR MILLER DRILLING CO.	NORTHING: 1169969.117
DRILLER: KEN GOBELL	EASTING: 667768.159
IT FIELD REPRESENTATIVE: DREW STORM	JOB NO: 774645A

GROUND SURFACE ELEVATION*
793.162

TOP of WELL CASING or RISER PIPE
EL* 792.885 STICKUP

TYPE of SURFACE SEAL Concrete
THICKNESS of SURFACE SEAL (inches) 3

ANNULAR SPACE SEAL
TYPE Bentonite-Cement

TYPE of RISER MATERIAL (Flush Threaded) PVC SCH 40

INSIDE DIAMETER of RISER (inches) 2

TOP OF BENTONITE SEAL
17

APPROXIMATE DIAMETER of BOREHOLE (inches) 4.5

TOP OF SAND PACK 20

TOP OF SCREENED INTERVAL
EL* 770.162 DEPTH 23

TYPE of SCREEN MATERIAL PVC SCH 40

SLOT SIZE (inches) 0.010

INSIDE DIAMETER (inches) 2

TYPE of SAND PACK AROUND SCREEN Sand No 1

HORIZONTAL SURVEY DATUM: NAD83

VERTICAL SURVEY DATUM: NGVD88

BOTTOM of SCREENED INTERVAL
EL* 755.162 DEPTH 38

BOTTOM of SUMP and WELL
EL* 754.162 DEPTH 39

BOTTOM of BOREHOLE
EL* 754.162 DEPTH 39

NEAT CEMENT
BENTONITE SEAL
FILTER PACK
GROUT
BOREHOLE COLLAPSE

*All elevations (EL) are referenced to MSL.

All depths and heights are given in feet and are referenced to the ground surface.

APPENDIX C

SURVEY DATA

Appendix C

Survey Data
Former Printing Plant, Building 143
Fort McClellan, Calhoun County Alabama

Sample Location	Northing	Easting	Ground Elevation (ft msl)	Top of Casing Elevation (ft msl)
PPMP-138-GP01	1169895.91	667837.79	796.34	NA
PPMP-138-GP02	1169863.04	667758.42	796.21	NA
PPMP-138-GP03	1169946.59	667722.97	793.59	NA
PPMP-138-GP04	1169979.87	667788.27	793.69	NA
PPMP-138-MW01	1169951.58	667766.81	793.34	792.67
PPMP-138-MW02	1169952.06	667784.81	793.38	792.49
UST-37-GP01	1169954.816	667788.261	793.13	NA
UST-37-GP02	1169936.811	667756.721	793.56	NA
UST-37-MW01	1169969.117	667768.159	793.16	792.89
UST-37-MW01(SS)	1169961.546	667771.446	793.00	NA

Horizontal coordinates were referenced to the U.S. State Plane Coordinate System, Alabama East Zone, North American Datum (NAD83), 1983

Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

ft msl - Feet mean sea level.
NA - Not available, well not installed.

APPENDIX D

WELL DEVELOPMENT LOGS

Groundwater Well Development Log

Fort McClellan, Alabama

COMPLETED

Project Number: 774645
Form Completed by: Doug Carder
Well Developed by (person/firm): Miller Drilling

Parcel No.: UST-37
Well No.: MW01
Date started: 12-8-99

Monitoring Well Information

Development Method: Purge with Pump
Development Equipment: 2" Surge Block

Casing Diameter: 2" Flush Mount

Beginning Measurments
Depth to Water (ft): 17.15
Total depth of Well (ft): 38.7

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments (Date if different from start date)
10:15	0	17.15	—	—	—	—	—	—	Begin setup for Development. 2" Surge Block. PID = 0.0
10:45	0	17.15	5.16	.118	39.5	2.02	16.6	Grey Cloudy	Begin Pumping on Bottom @ 0.20 GPM
11:00	~3	18.8	5.22	.113	16.9	2.30	15.8	" "	
:15	~6	19.75	5.17	.112	437	2.47	17.9	" "	
:30	~9	20.00	5.20	.115	659	2.08	17.1	" "	
:45	~12	20.20	5.20	.113	799	1.90	18.2	" "	
12:00	~15	20.25	5.22	.111	604	3.01	18.8	" "	

Parcel No.: UST-37
Well ID: MW01
Date: 12-8-99

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments (Date if different from start date)
:15	~18	20.25	5.28	.110	481	-0.06	18.5	Grey Cloudy	
:30	~21	20.4	5.38	.108	366	0.05	19.0	cloudy	
:45	~24	20.85	5.36	.107	263	-0.05	19.4	"	
13:00	~27	20.65	5.40	.107	199	2.28	19.2	"	
:15	~30	21.00	5.35	.108	171	2.24	19.2	"	
:30	~33	20.50	5.30	.106	76.5	2.80	19.1	Slightly Cloudy	
:45	~36	20.95	5.30	.104	55.1	2.94	19.4	"	
14:00	~39	21.10	5.25	.104	39.2	-0.05	19.5	"	
:15	~42	20.90	5.28	.103	27.4	0.40	19.4	Clear	
:30	~45	20.85	5.24	.102	16.1	-0.05	19.4	"	Raised pump to ~4' off Bottom.
:45	~48	*20.75	5.24	.097	325	-0.05	19.2	cloudy	
15:00	~51	*20.8	5.24	.096	39.5	-0.05	19.3	Clear	
:15	~54	21.2	5.15	.098	27.5	0.31	19.5	"	

Parcel No.: UST-37
Well ID: MW01
Date: 12-8-99

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments (Date if different from start date)
15:30	57	20.95	5.24	.099	14.2	-0.04	19.3	Clear	Raised pump to ~ 8' off Bottom.
:45	60	21.05	5.23	.099	193	2.31	19.1	Cloudy	
16:00	63	21.60	5.16	.097	11.2	-0.05	19.2	clear	Raised pump to ~ 12 off Bottom
:15	66	21.20	5.23	.102	32.2	-0.05	19.1	"	
:30	69	20.90	5.20	.100	5.66	0.15	18.1	Clear	Took H2O sample. Development Complete. Breakdown/Decon.
:									
:									
:									
:									
:									
:									
:									
:									

APPENDIX E

SUMMARY OF VALIDATED ANALYTICAL DATA

Summary of Validated Surface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP04		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0001			KE0003			KE0005			KE0009		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		0 - 1			0 - 1			0 - 1			0 - 1		
VOLATILES	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
1,1,1,2-Tetrachloroethane	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
1,1,1-Trichloroethane	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
1,1,2,2-Tetrachloroethane	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
1,1,2-Trichloroethane	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
1,1-Dichloroethane	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
1,1-Dichloroethene	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
1,1-Dichloropropene	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
1,2,3-Trichlorobenzene	mg/kg	.0058	U	UJ	.006	U	UJ	.0057	U	UJ	.0065	U	UJ
1,2,3-Trichloropropane	mg/kg	.0058	U	UJ	.006	U	U	.0057	U	U	.0065	U	U
1,2,4-Trichlorobenzene	mg/kg	.0058	U	UJ	.006	U	UJ	.0057	U	UJ	.0065	U	UJ
1,2,4-Trimethylbenzene	mg/kg	.0058	U	UJ	.006	U	U	.0057	U	U	.0065	U	U
1,2-Dibromo-3-Chloropropane	mg/kg	.012	U	R	.012	U	R	.011	U	R	.013	U	R
1,2-Dibromoethane	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
1,2-Dichlorobenzene	mg/kg	.0058	U	UJ	.006	U	U	.0057	U	U	.0065	U	U
1,2-Dichloroethane	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
1,2-Dichloropropane	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
1,2-Dimethylbenzene	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
1,3,5-Trimethylbenzene	mg/kg	.0058	U	UJ	.006	U	U	.0057	U	U	.0065	U	U
1,3-Dichlorobenzene	mg/kg	.0058	U	UJ	.006	U	U	.0057	U	U	.0065	U	U
1,3-Dichloropropane	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
1,4-Dichlorobenzene	mg/kg	.0058	U	UJ	.006	U	U	.0057	U	U	.0065	U	U
2-Butanone	mg/kg	.023	U	R	.024	U	R	.023	U	R	.026	U	R

Summary of Validated Surface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP04		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0001			KE0003			KE0005			KE0009		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		0 - 1			0 - 1			0 - 1			0 - 1		
VOLATILES	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
2-Hexanone	mg/kg	.023	U	U	.024	U	U	.023	U	U	.026	U	U
4-Methyl-2-pentanone	mg/kg	.023	U	U	.024	U	U	.023	U	U	.026	U	U
Acetone	mg/kg	.0094	J B	B	.046	B	B	.012	J B	B	.062	B	B
Benzene	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Bromobenzene	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Bromochloromethane	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Bromodichloromethane	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Bromoform	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Bromomethane	mg/kg	.0025	J B	B	.0017	J B	B	.0016	J B	B	.0021	J B	B
Carbon disulfide	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Carbon tetrachloride	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Chlorobenzene	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Chloroethane	mg/kg	.012	U	U	.012	U	U	.011	U	U	.013	U	U
Chloroform	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Chloromethane	mg/kg	.012	U	U	.012	U	U	.011	U	U	.013	U	U
Cumene	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Dibromochloromethane	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Dibromomethane	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Dichlorodifluoromethane	mg/kg	.012	U	UJ	.012	U	UJ	.011	U	UJ	.013	U	UJ
Ethylbenzene	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Hexachlorobutadiene	mg/kg	.0058	U	UJ	.006	U	U	.0057	U	U	.0065	U	U
Methylene chloride	mg/kg	.0032	J B	B	.0032	J B	B	.0019	J B	B	.0031	J B	B

Summary of Validated Surface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP04		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0001			KE0003			KE0005			KE0009		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		0 - 1			0 - 1			0 - 1			0 - 1		
VOLATILES	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
Naphthalene	mg/kg	.0058	U	UJ	.006	U	UJ	.0057	U	UJ	.0065	U	UJ
Styrene	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Tetrachloroethene	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Toluene	mg/kg	.0058	U	U	.006	U	U	.0044	J	J	.0065	U	U
Trichloroethene	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
Trichlorofluoromethane	mg/kg	.012	U	U	.012	U	U	.011	U	U	.013	U	U
Vinyl chloride	mg/kg	.012	U	U	.012	U	U	.011	U	U	.013	U	U
cis-1,2-Dichloroethene	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
cis-1,3-Dichloropropene	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
m,p-Xylenes	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
n-Butylbenzene	mg/kg	.0058	U	UJ	.006	U	U	.0057	U	U	.0065	U	U
n-Propylbenzene	mg/kg	.0058	U	UJ	.006	U	U	.0057	U	U	.0065	U	U
o-Chlorotoluene	mg/kg	.0058	U	UJ	.006	U	U	.0057	U	U	.0065	U	U
p-Chlorotoluene	mg/kg	.0058	U	UJ	.006	U	U	.0057	U	U	.0065	U	U
p-Cymene	mg/kg	.0058	U	UJ	.015			.0057	U	U	.0065	U	U
sec-Butylbenzene	mg/kg	.0058	U	UJ	.006	U	U	.0057	U	U	.0065	U	U
sec-Dichloropropane	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
tert-Butylbenzene	mg/kg	.0058	U	UJ	.006	U	U	.0057	U	U	.0065	U	U
trans-1,2-Dichloroethene	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U
trans-1,3-Dichloropropene	mg/kg	.0058	U	U	.006	U	U	.0057	U	U	.0065	U	U

Summary of Validated Surface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP04		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0001			KE0003			KE0005			KE0009		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		0 - 1			0 - 1			0 - 1			0 - 1		
SEMIVOLATILES	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
1,2,4-Trichlorobenzene	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
1,2-Dichlorobenzene	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
1,3-Dichlorobenzene	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
1,4-Dichlorobenzene	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
2,4,5-Trichlorophenol	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
2,4,6-Trichlorophenol	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
2,4-Dichlorophenol	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
2,4-Dimethylphenol	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
2,4-Dinitrophenol	mg/kg	1.9	U	UJ	1.9	U	UJ	1.8	U	UJ	10	U	UJ
2,4-Dinitrotoluene	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
2,6-Dinitrotoluene	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
2-Chloronaphthalene	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
2-Chlorophenol	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
2-Methylnaphthalene	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
2-Methylphenol	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
2-Nitroaniline	mg/kg	1.9	U	U	1.9	U	U	1.8	U	U	10	U	U
2-Nitrophenol	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
3,3'-Dichlorobenzidine	mg/kg	1.9	U	U	1.9	U	U	1.8	U	U	10	U	U
3-Nitroaniline	mg/kg	1.9	U	U	1.9	U	U	1.8	U	U	10	U	U
4,6-Dinitro-2-methylphenol	mg/kg	1.9	U	UJ	1.9	U	UJ	1.8	U	UJ	10	U	U
4-Bromophenyl phenyl ether	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
4-Chloro-3-methylphenol	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U

Summary of Validated Surface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP04		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0001			KE0003			KE0005			KE0009		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		0 - 1			0 - 1			0 - 1			0 - 1		
SEMIVOLATILES	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
4-Chloroaniline	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
4-Chlorophenyl phenyl ether	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
4-Methylphenol	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
4-Nitroaniline	mg/kg	1.9	U	U	1.9	U	U	1.8	U	U	10	U	U
4-Nitrophenol	mg/kg	1.9	U	U	1.9	U	U	1.8	U	U	10	U	UJ
Acenaphthene	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Acenaphthylene	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Anthracene	mg/kg	.092	J	J	.39	U	U	.37	U	U	2.1	U	U
Benzo(a)anthracene	mg/kg	.32	J B	J	.05	J B	B	.37	U	U	.28	J B	J
Benzo(a)pyrene	mg/kg	.29	J	J	.05	J	J	.37	U	U	.25		J
Benzo(b)fluoranthene	mg/kg	.39			.078	J	J	.37	U	U	.32	J	J
Benzo(ghi)perylene	mg/kg	.17	J	J	.39	U	U	.37	U	U	2.1	U	U
Benzo(k)fluoranthene	mg/kg	.15	J	J	.39	U	U	.37	U	U	2.1	U	U
Butyl benzyl phthalate	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Carbazole	mg/kg	.069	J	J	.39	U	U	.37	U	U	2.1	U	U
Chrysene	mg/kg	.32	J B	J	.059	J B	B	.37	U	U	.3	J B	J
Di-n-butyl phthalate	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Di-n-octyl phthalate	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Dibenz(a,h)anthracene	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Dibenzofuran	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Diethyl phthalate	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Dimethyl phthalate	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U

Summary of Validated Surface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP04		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0001			KE0003			KE0005			KE0009		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		0 - 1			0 - 1			0 - 1			0 - 1		
SEMIVOLATILES	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
Fluoranthene	mg/kg	.74			.1	J	J	.37	U	U	.71	J	J
Fluorene	mg/kg	.042	J	J	.39	U	U	.37	U	U	2.1	U	U
Hexachlorobenzene	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Hexachlorobutadiene	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Hexachlorocyclopentadiene	mg/kg	1.9	U	U	1.9	U	U	1.8	U	U	10	U	UJ
Hexachloroethane	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Indeno(1,2,3-cd)pyrene	mg/kg	.18	J	J	.39	U	U	.37	U	U	2.1	U	U
Isophorone	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Naphthalene	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Nitrobenzene	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Pentachlorophenol	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Phenanthrene	mg/kg	.45			.054	J	J	.37	U	U	.5	J	J
Phenol	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
Pyrene	mg/kg	.52		J	.076	J	J	.37	U	UJ	.52	J	J
bis(2-Chloroethoxy)methane	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
bis(2-Chloroethyl)ether	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
bis(2-Chloroisopropyl)ether	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
bis(2-Ethylhexyl)phthalate	mg/kg	.045	J	J	.16	J	J	.37	U	U	2.1	U	U
n-Nitroso-di-n-propylamine	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U
n-Nitrosodiphenylamine	mg/kg	.38	U	U	.39	U	U	.37	U	U	2.1	U	U

Summary of Validated Surface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP04		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0001			KE0003			KE0005			KE0009		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		0 - 1			0 - 1			0 - 1			0 - 1		
MOISTURE	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
% Moisture		na			na			na			na		

Summary of Validated Surface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP04		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0001			KE0003			KE0005			KE0009		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		0 - 1			0 - 1			0 - 1			0 - 1		
METALS-S	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
Aluminum	mg/kg	9350			7500			12800			13800		
Antimony	mg/kg	7.0	U	UJ	7.1	U	UJ	6.8	U	UJ	7.8	U	UJ
Arsenic	mg/kg	9.5			10.1			4.3			4.6		
Barium	mg/kg	114			77.6			48.2			88.7		
Beryllium	mg/kg	0.58		J	0.58	B	J	0.42	B	J	1.5		J
Cadmium	mg/kg	0.58	U	U	0.60	U	U	0.57	U	U	0.65	U	U
Calcium	mg/kg	3890			787			6790			17700		
Chromium	mg/kg	18.2		J	13.6		J	17.4		J	18.1		J
Cobalt	mg/kg	4.4	B	J	5.6	B	J	2.2	B	J	1.7	B	J
Copper	mg/kg	29.4			77.8			9.1			17.3		
Iron	mg/kg	15000			13400			18400			25600		
Lead	mg/kg	71.8		J	69.9		J	7.9		J	17.4		J
Magnesium	mg/kg	561	B	J	243	B	J	984			2860		
Manganese	mg/kg	548			842			57.8			152		
Mercury	mg/kg	0.010	B	J	0.17		J	0.053		J	0.046		J
Nickel	mg/kg	5.8			5.4			4.7			4.5	B	J
Potassium	mg/kg	168	B	J	180	B	J	496	B	J	668		
Selenium	mg/kg	1.2			0.83			0.94			1.7		
Silver	mg/kg	1.2	U	U	1.2	U	U	1.1	U	U	1.3	U	U
Sodium	mg/kg	69.9	B	B	90.6	B	B	97.9	B	B	142	B	B
Thallium	mg/kg	1.2	U	U	1.2	U	U	1.1	U	U	1.3	U	U
Vanadium	mg/kg	26.1		J	19.6		J	29.7		J	32.0		J

Summary of Validated Surface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP04		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0001			KE0003			KE0005			KE0009		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		0 - 1			0 - 1			0 - 1			0 - 1		
METALS-S	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
Zinc	mg/kg	71.2			67.2			19.6			20.5		

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP03		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0002			KE0004			KE0006			KE0007		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		6 - 8			2 - 3			9 - 12			9 - 12		
VOLATILES	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
1,1,1,2-Tetrachloroethane	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,1,1-Trichloroethane	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,1,2,2-Tetrachloroethane	mg/kg	.0063	U	U	.0032	J	J	.0058	U	U	.0091	U	U
1,1,2-Trichloroethane	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,1-Dichloroethane	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,1-Dichloroethene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,1-Dichloropropene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,2,3-Trichlorobenzene	mg/kg	.0063	U	UJ	.0058	U	UJ	.0058	U	UJ	.0091	U	UJ
1,2,3-Trichloropropane	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,2,4-Trichlorobenzene	mg/kg	.0063	U	UJ	.0058	U	UJ	.0058	U	UJ	.0091	U	UJ
1,2,4-Trimethylbenzene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,2-Dibromo-3-Chloropropane	mg/kg	.013	U	R	.012	U	R	.012	U	R	.018	U	R
1,2-Dibromoethane	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,2-Dichlorobenzene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,2-Dichloroethane	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,2-Dichloropropane	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,2-Dimethylbenzene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,3,5-Trimethylbenzene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,3-Dichlorobenzene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,3-Dichloropropane	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
1,4-Dichlorobenzene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
2-Butanone	mg/kg	.025	U	R	.023	U	R	.023	U	R	.036	U	R

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP04		
Associated Site:		PPMP-138		
Sample No:		KE0010		
Sample Date:		19-JAN-99		
Depth:		6 - 9		
VOLATILES	Units	Result	Lab Qlfr	Val Qlfr
1,1,1,2-Tetrachloroethane	mg/kg	.0059	U	U
1,1,1-Trichloroethane	mg/kg	.0059	U	U
1,1,2,2-Tetrachloroethane	mg/kg	.0059	U	U
1,1,2-Trichloroethane	mg/kg	.0059	U	U
1,1-Dichloroethane	mg/kg	.0059	U	U
1,1-Dichloroethene	mg/kg	.0059	U	U
1,1-Dichloropropene	mg/kg	.0059	U	U
1,2,3-Trichlorobenzene	mg/kg	.0059	U	UJ
1,2,3-Trichloropropane	mg/kg	.0059	U	U
1,2,4-Trichlorobenzene	mg/kg	.0059	U	UJ
1,2,4-Trimethylbenzene	mg/kg	.0059	U	U
1,2-Dibromo-3-Chloropropane	mg/kg	.012	U	R
1,2-Dibromoethane	mg/kg	.0059	U	U
1,2-Dichlorobenzene	mg/kg	.0059	U	U
1,2-Dichloroethane	mg/kg	.0059	U	U
1,2-Dichloropropane	mg/kg	.0059	U	U
1,2-Dimethylbenzene	mg/kg	.0059	U	U
1,3,5-Trimethylbenzene	mg/kg	.0059	U	U
1,3-Dichlorobenzene	mg/kg	.0059	U	U
1,3-Dichloropropane	mg/kg	.0059	U	U
1,4-Dichlorobenzene	mg/kg	.0059	U	U
2-Butanone	mg/kg	.024	U	R

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP03		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0002			KE0004			KE0006			KE0007		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		6 - 8			2 - 3			9 - 12			9 - 12		
VOLATILES	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
2-Hexanone	mg/kg	.025	U	U	.023	U	U	.023	U	U	.036	U	U
4-Methyl-2-pentanone	mg/kg	.025	U	U	.023	U	U	.023	U	U	.036	U	U
Acetone	mg/kg	.012	J B	B	.42	B	J	.0091	J B	B	.017	J B	B
Benzene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Bromobenzene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Bromochloromethane	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Bromodichloromethane	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Bromoform	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Bromomethane	mg/kg	.0026	J B	B	.0021	J B	B	.0018	J B	B	.0041	J B	B
Carbon disulfide	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Carbon tetrachloride	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Chlorobenzene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Chloroethane	mg/kg	.013	U	U	.012	U	U	.012	U	U	.018	U	UJ
Chloroform	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Chloromethane	mg/kg	.013	U	U	.012	U	U	.012	U	U	.018	U	U
Cumene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Dibromochloromethane	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Dibromomethane	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Dichlorodifluoromethane	mg/kg	.013	U	UJ	.012	U	UJ	.012	U	UJ	.018	U	UJ
Ethylbenzene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Hexachlorobutadiene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Methylene chloride	mg/kg	.0036	J B	B	.0027	J B	B	.0021	J B	B	.0059	J B	B

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:	PPMP-138-GP04			
Associated Site:	PPMP-138			
Sample No:	KE0010			
Sample Date:	19-JAN-99			
Depth:	6 - 9			
VOLATILES	Units	Result	Lab Qlfr	Val Qlfr
2-Hexanone	mg/kg	.024	U	U
4-Methyl-2-pentanone	mg/kg	.024	U	U
Acetone	mg/kg	.12	B	J
Benzene	mg/kg	.0059	U	U
Bromobenzene	mg/kg	.0059	U	U
Bromochloromethane	mg/kg	.0059	U	U
Bromodichloromethane	mg/kg	.0059	U	U
Bromoform	mg/kg	.0059	U	U
Bromomethane	mg/kg	.0021	J B	B
Carbon disulfide	mg/kg	.0059	U	U
Carbon tetrachloride	mg/kg	.0059	U	U
Chlorobenzene	mg/kg	.0059	U	U
Chloroethane	mg/kg	.012	U	U
Chloroform	mg/kg	.0059	U	U
Chloromethane	mg/kg	.012	U	U
Cumene	mg/kg	.0059	U	U
Dibromochloromethane	mg/kg	.0059	U	U
Dibromomethane	mg/kg	.0059	U	U
Dichlorodifluoromethane	mg/kg	.012	U	UJ
Ethylbenzene	mg/kg	.0059	U	U
Hexachlorobutadiene	mg/kg	.0059	U	U
Methylene chloride	mg/kg	.0029	J B	B

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP03		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0002			KE0004			KE0006			KE0007		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		6 - 8			2 - 3			9 - 12			9 - 12		
VOLATILES	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
Naphthalene	mg/kg	.0063	U	UJ	.0058	U	UJ	.0058	U	UJ	.0091	U	UJ
Styrene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Tetrachloroethene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Toluene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0031	J	J
Trichloroethene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
Trichlorofluoromethane	mg/kg	.013	U	U	.012	U	U	.012	U	U	.0069	J	J
Vinyl chloride	mg/kg	.013	U	U	.012	U	U	.012	U	U	.018	U	U
cis-1,2-Dichloroethene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
cis-1,3-Dichloropropene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
m,p-Xylenes	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
n-Butylbenzene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
n-Propylbenzene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
o-Chlorotoluene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
p-Chlorotoluene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
p-Cymene	mg/kg	.0063	U	U	.048			.0058	U	U	.0091	U	U
sec-Butylbenzene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
sec-Dichloropropane	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
tert-Butylbenzene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
trans-1,2-Dichloroethene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U
trans-1,3-Dichloropropene	mg/kg	.0063	U	U	.0058	U	U	.0058	U	U	.0091	U	U

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP04		
Associated Site:		PPMP-138		
Sample No:		KE0010		
Sample Date:		19-JAN-99		
Depth:		6 - 9		
VOLATILES	Units	Result	Lab Qlfr	Val Qlfr
Naphthalene	mg/kg	.0059	U	UJ
Styrene	mg/kg	.0059	U	U
Tetrachloroethene	mg/kg	.0059	U	U
Toluene	mg/kg	.0059	U	U
Trichloroethene	mg/kg	.0059	U	U
Trichlorofluoromethane	mg/kg	.012	U	U
Vinyl chloride	mg/kg	.012	U	U
cis-1,2-Dichloroethene	mg/kg	.0059	U	U
cis-1,3-Dichloropropene	mg/kg	.0059	U	U
m,p-Xylenes	mg/kg	.0059	U	U
n-Butylbenzene	mg/kg	.0059	U	U
n-Propylbenzene	mg/kg	.0059	U	U
o-Chlorotoluene	mg/kg	.0059	U	U
p-Chlorotoluene	mg/kg	.0059	U	U
p-Cymene	mg/kg	.0059	U	U
sec-Butylbenzene	mg/kg	.0059	U	U
sec-Dichloropropane	mg/kg	.0059	U	U
tert-Butylbenzene	mg/kg	.0059	U	U
trans-1,2-Dichloroethene	mg/kg	.0059	U	U
trans-1,3-Dichloropropene	mg/kg	.0059	U	U

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP03		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0002			KE0004			KE0006			KE0007		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		6 - 8			2 - 3			9 - 12			9 - 12		
SEMIVOLATILES	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
1,2,4-Trichlorobenzene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
1,2-Dichlorobenzene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
1,3-Dichlorobenzene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
1,4-Dichlorobenzene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
2,4,5-Trichlorophenol	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
2,4,6-Trichlorophenol	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
2,4-Dichlorophenol	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
2,4-Dimethylphenol	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
2,4-Dinitrophenol	mg/kg	2	U	UJ	1.9	U	UJ	1.8	U	U	1.8	U	U
2,4-Dinitrotoluene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
2,6-Dinitrotoluene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
2-Chloronaphthalene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
2-Chlorophenol	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
2-Methylnaphthalene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
2-Methylphenol	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
2-Nitroaniline	mg/kg	2	U	U	1.9	U	U	1.8	U	U	1.8	U	U
2-Nitrophenol	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
3,3'-Dichlorobenzidine	mg/kg	2	U	U	1.9	U	U	1.8	U	U	1.8	U	U
3-Nitroaniline	mg/kg	2	U	U	1.9	U	U	1.8	U	UJ	1.8	U	UJ
4,6-Dinitro-2-methylphenol	mg/kg	2	U	UJ	1.9	U	UJ	1.8	U	U	1.8	U	U
4-Bromophenyl phenyl ether	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
4-Chloro-3-methylphenol	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:	PPMP-138-GP04			
Associated Site:	PPMP-138			
Sample No:	KE0010			
Sample Date:	19-JAN-99			
Depth:	6 - 9			
SEMIVOLATILES	Units	Result	Lab Qlfr	Val Qlfr
1,2,4-Trichlorobenzene	mg/kg	.39	U	U
1,2-Dichlorobenzene	mg/kg	.39	U	U
1,3-Dichlorobenzene	mg/kg	.39	U	U
1,4-Dichlorobenzene	mg/kg	.39	U	U
2,4,5-Trichlorophenol	mg/kg	.39	U	U
2,4,6-Trichlorophenol	mg/kg	.39	U	U
2,4-Dichlorophenol	mg/kg	.39	U	U
2,4-Dimethylphenol	mg/kg	.39	U	U
2,4-Dinitrophenol	mg/kg	1.9	U	U
2,4-Dinitrotoluene	mg/kg	.39	U	U
2,6-Dinitrotoluene	mg/kg	.39	U	U
2-Chloronaphthalene	mg/kg	.39	U	U
2-Chlorophenol	mg/kg	.39	U	U
2-Methylnaphthalene	mg/kg	.39	U	U
2-Methylphenol	mg/kg	.39	U	U
2-Nitroaniline	mg/kg	1.9	U	U
2-Nitrophenol	mg/kg	.39	U	U
3,3'-Dichlorobenzidine	mg/kg	1.9	U	U
3-Nitroaniline	mg/kg	1.9	U	U
4,6-Dinitro-2-methylphenol	mg/kg	1.9	U	U
4-Bromophenyl phenyl ether	mg/kg	.39	U	U
4-Chloro-3-methylphenol	mg/kg	.39	U	U

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP03		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0002			KE0004			KE0006			KE0007		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		6 - 8			2 - 3			9 - 12			9 - 12		
SEMIVOLATILES	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
4-Chloroaniline	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
4-Chlorophenyl phenyl ether	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
4-Methylphenol	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
4-Nitroaniline	mg/kg	2	U	U	1.9	U	U	1.8	U	UJ	1.8	U	UJ
4-Nitrophenol	mg/kg	2	U	U	1.9	U	U	1.8	U	U	1.8	U	U
Acenaphthene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Acenaphthylene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Anthracene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Benzo(a)anthracene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Benzo(a)pyrene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Benzo(b)fluoranthene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Benzo(ghi)perylene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Benzo(k)fluoranthene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Butyl benzyl phthalate	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Carbazole	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Chrysene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Di-n-butyl phthalate	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Di-n-octyl phthalate	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Dibenz(a,h)anthracene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Dibenzofuran	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Diethyl phthalate	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Dimethyl phthalate	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP04		
Associated Site:		PPMP-138		
Sample No:		KE0010		
Sample Date:		19-JAN-99		
Depth:		6 - 9		
SEMIVOLATILES	Units	Result	Lab Qlfr	Val Qlfr
4-Chloroaniline	mg/kg	.39	U	U
4-Chlorophenyl phenyl ether	mg/kg	.39	U	U
4-Methylphenol	mg/kg	.39	U	U
4-Nitroaniline	mg/kg	1.9	U	U
4-Nitrophenol	mg/kg	1.9	U	U
Acenaphthene	mg/kg	.39	U	U
Acenaphthylene	mg/kg	.39	U	U
Anthracene	mg/kg	.39	U	U
Benzo(a)anthracene	mg/kg	.39	U	U
Benzo(a)pyrene	mg/kg	.39	U	U
Benzo(b)fluoranthene	mg/kg	.39	U	U
Benzo(ghi)perylene	mg/kg	.39	U	U
Benzo(k)fluoranthene	mg/kg	.39	U	U
Butyl benzyl phthalate	mg/kg	.39	U	U
Carbazole	mg/kg	.39	U	U
Chrysene	mg/kg	.39	U	U
Di-n-butyl phthalate	mg/kg	.39	U	U
Di-n-octyl phthalate	mg/kg	.39	U	U
Dibenz(a,h)anthracene	mg/kg	.39	U	U
Dibenzofuran	mg/kg	.39	U	U
Diethyl phthalate	mg/kg	.39	U	U
Dimethyl phthalate	mg/kg	.39	U	U

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP03		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0002			KE0004			KE0006			KE0007		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		6 - 8			2 - 3			9 - 12			9 - 12		
SEMIVOLATILES	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
Fluoranthene	mg/kg	.42	U	U	.041	J	J	.38	U	U	.38	U	U
Fluorene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Hexachlorobenzene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Hexachlorobutadiene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Hexachlorocyclopentadiene	mg/kg	2	U	U	1.9	U	U	1.8	U	U	1.8	U	U
Hexachloroethane	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Indeno(1,2,3-cd)pyrene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Isophorone	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Naphthalene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Nitrobenzene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Pentachlorophenol	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Phenanthrene	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Phenol	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
Pyrene	mg/kg	.42	U	UJ	.38	U	UJ	.38	U	UJ	.38	U	UJ
bis(2-Chloroethoxy)methane	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
bis(2-Chloroethyl)ether	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
bis(2-Chloroisopropyl)ether	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
bis(2-Ethylhexyl)phthalate	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
n-Nitroso-di-n-propylamine	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U
n-Nitrosodiphenylamine	mg/kg	.42	U	U	.38	U	U	.38	U	U	.38	U	U

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP04		
Associated Site:		PPMP-138		
Sample No:		KE0010		
Sample Date:		19-JAN-99		
Depth:		6 - 9		
SEMIVOLATILES	Units	Result	Lab Qlfr	Val Qlfr
Fluoranthene	mg/kg	.39	U	U
Fluorene	mg/kg	.39	U	U
Hexachlorobenzene	mg/kg	.39	U	U
Hexachlorobutadiene	mg/kg	.39	U	U
Hexachlorocyclopentadiene	mg/kg	1.9	U	U
Hexachloroethane	mg/kg	.39	U	U
Indeno(1,2,3-cd)pyrene	mg/kg	.39	U	U
Isophorone	mg/kg	.39	U	U
Naphthalene	mg/kg	.39	U	U
Nitrobenzene	mg/kg	.39	U	U
Pentachlorophenol	mg/kg	.39	U	U
Phenanthrene	mg/kg	.39	U	U
Phenol	mg/kg	.39	U	U
Pyrene	mg/kg	.39	U	UJ
bis(2-Chloroethoxy)methane	mg/kg	.39	U	U
bis(2-Chloroethyl)ether	mg/kg	.39	U	U
bis(2-Chloroisopropyl)ether	mg/kg	.39	U	U
bis(2-Ethylhexyl)phthalate	mg/kg	.39	U	U
n-Nitroso-di-n-propylamine	mg/kg	.39	U	U
n-Nitrosodiphenylamine	mg/kg	.39	U	U

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP03		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0002			KE0004			KE0006			KE0007		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		6 - 8			2 - 3			9 - 12			9 - 12		
MOISTURE	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
% Moisture		na			na			na			na		

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP04		
Associated Site:		PPMP-138		
Sample No:		KE0010		
Sample Date:		19-JAN-99		
Depth:		6 - 9		
MOISTURE	Units	Result	Lab Qlfr	Val Qlfr
% Moisture		na		

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP03		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0002			KE0004			KE0006			KE0007		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		6 - 8			2 - 3			9 - 12			9 - 12		
METALS-S	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
Aluminum	mg/kg	11800			7540			7740			8440		
Antimony	mg/kg	7.6	U	UJ	7.0	U	UJ	6.9	U	UJ	6.9	U	UJ
Arsenic	mg/kg	8.4			3.0			3.0			2.8		
Barium	mg/kg	23.3	B	J	40.5			14.6	B	J	12.5	B	J
Beryllium	mg/kg	0.43	B	J	0.36	B	J	0.19	B	J	0.16	B	J
Cadmium	mg/kg	0.63	U	U	0.58	U	U	0.58	U	U	0.58	U	U
Calcium	mg/kg	357	B	J	426	B	J	1070			747		
Chromium	mg/kg	41.1		J	8.3		J	11.4		J	12.1		J
Cobalt	mg/kg	1.1	B	J	2.4	B	J	0.71	B	J	0.63	B	J
Copper	mg/kg	26.7			7.2			4.7			5.0		
Iron	mg/kg	69500			8910			14800			22700		
Lead	mg/kg	13.9		J	10.2		J	5.5		J	4.9		J
Magnesium	mg/kg	122	B	J	195	B	J	259	B	J	197	B	J
Manganese	mg/kg	20.2			89.2			12.5		J	5.2		J
Mercury	mg/kg	0.042		J	0.037	B	J	0.042		J	0.042		J
Nickel	mg/kg	1.4	B	J	3.0	B	J	1.8	B	J	1.3	B	J
Potassium	mg/kg	354	B	J	119	B	J	229	B	J	187	B	J
Selenium	mg/kg	3.5			0.77			0.78			1.1		
Silver	mg/kg	1.3	U	U	1.2	U	U	1.2	U	U	1.2	U	U
Sodium	mg/kg	80.4	B	B	67.4	B	B	69.4	B	B	55.8	B	B
Thallium	mg/kg	0.70	B	B	1.2	U	U	1.2	U	U	0.48	B	B
Vanadium	mg/kg	50.9		J	14.6		J	21.2		J	22.6		J

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP04		
Associated Site:		PPMP-138		
Sample No:		KE0010		
Sample Date:		19-JAN-99		
Depth:		6 - 9		
METALS-S	Units	Result	Lab Qlfr	Val Qlfr
Aluminum	mg/kg	12800		
Antimony	mg/kg	7.1	U	UJ
Arsenic	mg/kg	5.0		
Barium	mg/kg	25.1		
Beryllium	mg/kg	0.28	B	J
Cadmium	mg/kg	0.59	U	U
Calcium	mg/kg	1070		
Chromium	mg/kg	16.4		J
Cobalt	mg/kg	1.8	B	J
Copper	mg/kg	7.5		
Iron	mg/kg	22400		
Lead	mg/kg	9.2		J
Magnesium	mg/kg	434	B	J
Manganese	mg/kg	70.2		
Mercury	mg/kg	0.076		J
Nickel	mg/kg	2.9	B	J
Potassium	mg/kg	351	B	J
Selenium	mg/kg	0.84		
Silver	mg/kg	1.2	U	U
Sodium	mg/kg	85.8	B	B
Thallium	mg/kg	1.2	U	U
Vanadium	mg/kg	34.1		J

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP01			PPMP-138-GP02			PPMP-138-GP03			PPMP-138-GP03		
Associated Site:		PPMP-138			PPMP-138			PPMP-138			PPMP-138		
Sample No:		KE0002			KE0004			KE0006			KE0007		
Sample Date:		19-JAN-99			19-JAN-99			19-JAN-99			19-JAN-99		
Depth:		6 - 8			2 - 3			9 - 12			9 - 12		
METALS-S	Units	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val Qlfr	Result	Lab Qlfr	Val
Zinc	mg/kg	20.1			32.6			8.3			11.5		

Summary of Validated Subsurface Soil Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/14/00

Sample Location:		PPMP-138-GP04		
Associated Site:		PPMP-138		
Sample No:		KE0010		
Sample Date:		19-JAN-99		
Depth:		6 - 9		
METALS-S	Units	Result	Lab Qlfr	Val Qlfr
Zinc	mg/kg	21.4		

Summary of Validated Groundwater Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/09/00

Sample Location:		PPMP-138-MW01		PPMP-138-MW01	
Associated Site:		PPMP-138		PPMP-138	
Sample No:		KE3001		KE3003	
Sample Date:		22-FEB-99		22-FEB-99	
VOLATILES	Units	Result	Val Qlfr	Result	Val Qlfr
1,1,1,2-Tetrachloroethane	mg/L	.005	U	.005	U
1,1,1-Trichloroethane	mg/L	.005	U	.005	U
1,1,2,2-Tetrachloroethane	mg/L	.005	U	.005	U
1,1,2-Trichloroethane	mg/L	.005	U	.005	U
1,1-Dichloroethane	mg/L	.005	U	.005	U
1,1-Dichloroethene	mg/L	.005	U	.005	U
1,1-Dichloropropene	mg/L	.005	U	.005	U
1,2,3-Trichlorobenzene	mg/L	.005	UJ	.005	U
1,2,3-Trichloropropane	mg/L	.005	U	.005	U
1,2,4-Trichlorobenzene	mg/L	.005	UJ	.005	U
1,2,4-Trimethylbenzene	mg/L	.005	U	.005	U
1,2-Dibromo-3-Chloropropane	mg/L	.01	R	.01	R
1,2-Dibromoethane	mg/L	.005	U	.005	U
1,2-Dichlorobenzene	mg/L	.005	U	.005	U
1,2-Dichloroethane	mg/L	.005	U	.005	U
1,2-Dichloropropane	mg/L	.005	U	.005	U
1,2-Dimethylbenzene	mg/L	.005	U	.005	U
1,3,5-Trimethylbenzene	mg/L	.005	U	.005	U
1,3-Dichlorobenzene	mg/L	.005	U	.005	U
1,3-Dichloropropane	mg/L	.005	U	.005	U
1,4-Dichlorobenzene	mg/L	.0049	J	.0024	J
2-Butanone	mg/L	.025	R	.025	R
2-Hexanone	mg/L	.025	U	.025	U
4-Methyl-2-pentanone	mg/L	.025	U	.025	U
Acetone	mg/L	.05	R	.012	B
Benzene	mg/L	.005	U	.005	U
Bromobenzene	mg/L	.005	U	.005	U
Bromochloromethane	mg/L	.005	R	.005	R
Bromodichlorom	mg/L	.005	U	[illegible]	U

Summary of Validated Groundwater Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/09/00

Sample Location:		PPMP-138-MW01		PPMP-138-MW01	
Associated Site:		PPMP-138		PPMP-138	
Sample No:		KE3001		KE3003	
Sample Date:		22-FEB-99		22-FEB-99	
VOLATILES	Units	Result	Val Qlfr	Result	Val Qlfr
Bromoform	mg/L	.005	U	.005	U
Bromomethane	mg/L	.01	R	.01	U
Carbon disulfide	mg/L	.005	U	.005	U
Carbon tetrachloride	mg/L	.005	U	.005	U
Chlorobenzene	mg/L	.005	U	.005	U
Chloroethane	mg/L	.01	U	.01	U
Chloroform	mg/L	.005	U	.005	U
Chloromethane	mg/L	.01	U	.01	U
Cumene	mg/L	.005	U	.005	U
Dibromochloromethane	mg/L	.005	U	.005	U
Dibromomethane	mg/L	.005	R	.005	R
Dichlorodifluoromethane	mg/L	.01	U	.01	U
Ethylbenzene	mg/L	.005	U	.005	U
Hexachlorobutadiene	mg/L	.005	U	.005	U
Methylene chloride	mg/L	.0038	J	.005	UJ
Naphthalene	mg/L	.005	UJ	.005	U
Styrene	mg/L	.005	U	.005	U
Tetrachloroethene	mg/L	.005	U	.005	U
Toluene	mg/L	.024	J	.011	J
Trichloroethene	mg/L	.005	U	.005	U
Trichlorofluoromethane	mg/L	.01	U	.01	U
Vinyl chloride	mg/L	.01	U	.01	U
cis-1,2-Dichloroethene	mg/L	.005	U	.005	U
cis-1,3-Dichloropropene	mg/L	.005	U	.005	U
m,p-Xylenes	mg/L	.005	U	.005	U
n-Butylbenzene	mg/L	.005	U	.005	U
n-Propylbenzene	mg/L	.005	U	.005	U
o-Chlorotoluene	mg/L	.005	U	.005	U
p-Chlorotoluene	mg/L	.005	U	.005	U

Summary of Validated Groundwater Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/09/00

Sample Location:		PPMP-138-MW01		PPMP-138-MW01	
Associated Site:		PPMP-138		PPMP-138	
Sample No:		KE3001		KE3003	
Sample Date:		22-FEB-99		22-FEB-99	
VOLATILES	Units	Result	Val Qlfr	Result	Val Qlfr
p-Cymene	mg/L	.08	J	.05	J
sec-Butylbenzene	mg/L	.005	U	.005	U
sec-Dichloropropane	mg/L	.005	U	.005	U
tert-Butylbenzene	mg/L	.005	U	.005	U
trans-1,2-Dichloroethene	mg/L	.005	U	.005	U
trans-1,3-Dichloropropene	mg/L	.005	U	.005	U

Summary of Validated Groundwater Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/09/00

Sample Location:		PPMP-138-MW01		PPMP-138-MW01	
Associated Site:		PPMP-138		PPMP-138	
Sample No:		KE3001		KE3003	
Sample Date:		22-FEB-99		22-FEB-99	
SEMIVOLATILES	Units	Result	Val Qlfr	Result	Val Qlfr
1,2,4-Trichlorobenzene	mg/L	.01	U	.01	U
1,2-Dichlorobenzene	mg/L	.01	U	.01	U
1,3-Dichlorobenzene	mg/L	.01	U	.01	U
1,4-Dichlorobenzene	mg/L	.01	U	.01	U
2,4,5-Trichlorophenol	mg/L	.01	U	.01	U
2,4,6-Trichlorophenol	mg/L	.01	U	.01	U
2,4-Dichlorophenol	mg/L	.01	U	.01	U
2,4-Dimethylphenol	mg/L	.01	U	.01	U
2,4-Dinitrophenol	mg/L	.05	U	.05	U
2,4-Dinitrotoluene	mg/L	.01	U	.01	U
2,6-Dinitrotoluene	mg/L	.01	U	.01	U
2-Chloronaphthalene	mg/L	.01	U	.01	U
2-Chlorophenol	mg/L	.01	U	.01	U
2-Methylnaphthalene	mg/L	.01	U	.01	U
2-Methylphenol	mg/L	.01	U	.01	U
2-Nitroaniline	mg/L	.05	U	.05	U
2-Nitrophenol	mg/L	.01	U	.01	U
3,3'-Dichlorobenzidine	mg/L	.05	U	.05	U
3-Nitroaniline	mg/L	.05	U	.05	U
4,6-Dinitro-2-methylphenol	mg/L	.05	U	.05	U
4-Bromophenyl phenyl ether	mg/L	.01	U	.01	U
4-Chloro-3-methylphenol	mg/L	.01	U	.01	U
4-Chloroaniline	mg/L	.01	U	.01	U
4-Chlorophenyl phenyl ether	mg/L	.01	U	.01	U
4-Methylphenol	mg/L	.028	J	.018	J
4-Nitroaniline	mg/L	.05	U	.05	U
4-Nitrophenol	mg/L	.05	U	.05	U
Acenaphthene	mg/L	.01	U	.01	U
Acenaphthylene	mg/L	.01	U	.01	U

Summary of Validated Groundwater Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/09/00

Sample Location:		PPMP-138-MW01		PPMP-138-MW01	
Associated Site:		PPMP-138		PPMP-138	
Sample No:		KE3001		KE3003	
Sample Date:		22-FEB-99		22-FEB-99	
SEMIVOLATILES	Units	Result	Val Qlfr	Result	Val Qlfr
Anthracene	mg/L	.01	U	.01	U
Benzo(a)anthracene	mg/L	.01	U	.01	U
Benzo(a)pyrene	mg/L	.01	U	.01	U
Benzo(b)fluoranthene	mg/L	.01	U	.01	U
Benzo(ghi)perylene	mg/L	.01	U	.01	U
Benzo(k)fluoranthene	mg/L	.01	U	.01	U
Butyl benzyl phthalate	mg/L	.01	U	.01	U
Carbazole	mg/L	.01	U	.01	U
Chrysene	mg/L	.01	U	.01	U
Di-n-butyl phthalate	mg/L	.01	U	.01	U
Di-n-octyl phthalate	mg/L	.01	U	.01	U
Dibenz(a,h)anthracene	mg/L	.01	U	.01	U
Dibenzofuran	mg/L	.01	U	.01	U
Diethyl phthalate	mg/L	.01	U	.01	U
Dimethyl phthalate	mg/L	.01	U	.01	U
Fluoranthene	mg/L	.01	U	.01	U
Fluorene	mg/L	.01	U	.01	U
Hexachlorobenzene	mg/L	.01	U	.01	U
Hexachlorobutadiene	mg/L	.01	U	.01	U
Hexachlorocyclopentadiene	mg/L	.05	U	.05	U
Hexachloroethane	mg/L	.01	U	.01	U
Indeno(1,2,3-cd)pyrene	mg/L	.01	U	.01	U
Isophorone	mg/L	.01	U	.01	U
Naphthalene	mg/L	.01	U	.01	U
Nitrobenzene	mg/L	.01	U	.01	U
Pentachlorophenol	mg/L	.05	U	.05	U
Phenanthrene	mg/L	.01	U	.01	U
Phenol	mg/L	.01	U	.01	U
Pyrene	mg/L	.01	U	.01	U

Summary of Validated Groundwater Data

Former Printing Plant Bldg 143 Basement (Parcel 138)

Fort McClellan, Alabama

Report Date: 02/09/00

Sample Location:		PPMP-138-MW01		PPMP-138-MW01	
Associated Site:		PPMP-138		PPMP-138	
Sample No:		KE3001		KE3003	
Sample Date:		22-FEB-99		22-FEB-99	
SEMIVOLATILES	Units	Result	Val Qlfr	Result	Val Qlfr
bis(2-Chloroethoxy)methane	mg/L	.01	U	.01	U
bis(2-Chloroethyl)ether	mg/L	.01	U	.01	U
bis(2-Chloroisopropyl)ether	mg/L	.01	U	.01	U
bis(2-Ethylhexyl)phthalate	mg/L	.01	U	.01	U
n-Nitroso-di-n-propylamine	mg/L	.01	U	.01	U
n-Nitrosodiphenylamine	mg/L	.01	U	.01	U

Summary of Validated Groundwater Data
Former Printing Plant, Bldg 143 Basement (Parcel 138)
Fort McClellan, Alabama

Report Date: 02/09/00

Sample Location:		PPMP-138-MW01		PPMP-138-MW01	
Associated Site:		PPMP-138		PPMP-138	
Sample No:		KE3001		KE3003	
Sample Date:		22-FEB-99		22-FEB-99	
METALS-W	Units	Result	Val Qlfr	Result	Val Qlfr
Aluminum	mg/L	.0421	J	.115	J
Antimony	mg/L	.06	U	.06	U
Arsenic	mg/L	.0114		.011	
Barium	mg/L	.0394	J	.0494	J
Beryllium	mg/L	.005	U	.005	U
Cadmium	mg/L	.005	U	.005	U
Calcium	mg/L	39.3		39	
Chromium	mg/L	.01	U	.01	U
Cobalt	mg/L	.05	U	.05	U
Copper	mg/L	.025	U	.025	U
Iron	mg/L	2.34		3.27	
Lead	mg/L	.003	U	.003	U
Magnesium	mg/L	14.2		14.4	
Manganese	mg/L	.125	J	.184	J
Mercury	mg/L	.0002	U	.0002	U
Nickel	mg/L	.04	U	.04	U
Potassium	mg/L	11.6		14.8	
Selenium	mg/L	.005	U	.005	U
Silver	mg/L	.01	U	.01	U
Sodium	mg/L	14.7		19.6	
Thallium	mg/L	.01	U	.01	U
Vanadium	mg/L	.05	U	.05	U
Zinc	mg/L	.02	U	.02	U

Summary of Groundwater Data
Underground Storage Tanks (Parcel 37)
Fort McClellan, Alabama

Report Date: 09/27/00

Location Code:	UST-37-MW01
Associated Site:	UST-37
Sample No:	CJ3029
Sample Date:	01-FEB-00

User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*
BTEX					
SW8021_W					
Benzene		mg/L	.00038	J	NV
Ethylbenzene		mg/L	.001	U	NV
Toluene		mg/L	.001	U	NV
Xylene, Total		mg/L	.001	U	NV
METALS					
SW6010_W					
Lead		mg/L	.003	U	NV
PAH					
SW8310_W					
Acenaphthene		mg/L	.001	U	NV
Acenaphthylene		mg/L	.001	U	NV
Anthracene		mg/L	.001	U	NV
Benzo(a)anthracene		mg/L	.0001	U	NV
Benzo(a)pyrene		mg/L	.0001	U	NV
Benzo(b)fluoranthene		mg/L	.0001	U	NV
Benzo(ghi)perylene		mg/L	.0001	U	NV
Benzo(k)fluoranthene		mg/L	.0003	U	NV
Chrysene		mg/L	.0001	U	NV
Dibenz(a,h)anthracene		mg/L	.0001	U	NV
Fluoranthene		mg/L	.0002	U	NV
Fluorene		mg/L	.002	U	NV
Indeno(1,2,3-cd)pyrene		mg/L	.0001	U	NV
Naphthalene		mg/L	.002	U	NV
Phenanthrene		mg/L	.001	U	NV
Pyrene		mg/L	.0001	U	NV

Summary of Subsurface Soil Data
Underground Storage Tanks (Parcel 37)
Fort McClellan, Alabama

Report Date: 09/27/00

User Test Group / Lab Method / Parameter	Units	Location Code: UST-37-GP01			Location Code: UST-37-GP02			Location Code: UST-37-MW01		
Associated Site:		UST-37			UST-37			UST-37		
Sample No:		CJ0028			CJ0029			CJ0027		
Sample Date:		09-NOV-99			10-NOV-99			10-NOV-99		
Sample Depth:		10 - 12			10 - 12			9 - 10		
		Result	Qual	VQual	Result	Qual	VQual	Result	Qual	VQual
BTEX										
SW8021_S										
Benzene	mg/kg	.013	J	NV	.065	U	NV	.059	U	NV
Ethylbenzene	mg/kg	.025	J B	NV	.065	U	NV	.059	U	NV
Toluene	mg/kg	.062	U	NV	.065	U	NV	.059	U	NV
Xylene, Total	mg/kg	.059	J B	NV	.014	J B	NV	.011	J B	NV
METALS										
SW6010_S										
Lead	mg/kg	12.1		NV	10.2		NV	6.2		NV
PAH										
SW8310_S										
Acenaphthene	mg/kg	.062	U	NV	.065	U	NV	.059	U	NV
Acenaphthylene	mg/kg	.062	U	NV	.065	U	NV	.059	U	NV
Anthracene	mg/kg	.062	U	NV	.065	U	NV	.059	U	NV
Benzo(a)anthracene	mg/kg	.0062	U	NV	.0065	U	NV	.0059	U	NV
Benzo(a)pyrene	mg/kg	.0062	U	NV	.0065	U	NV	.0059	U	NV
Benzo(b)fluoranthene	mg/kg	.0062	U	NV	.0065	U	NV	.0059	U	NV
Benzo(ghi)perylene	mg/kg	.0062	U	NV	.0065	U	NV	.0059	U	NV
Benzo(k)fluoranthene	mg/kg	.0062	U	NV	.0065	U	NV	.0059	U	NV
Chrysene	mg/kg	.0062	U	NV	.0065	U	NV	.0059	U	NV
Dibenz(a,h)anthracene	mg/kg	.0062	U	NV	.0065	U	NV	.0059	U	NV
Fluoranthene	mg/kg	.0062	U	NV	.0065	U	NV	.0059	U	NV
Fluorene	mg/kg	.062	U	NV	.065	U	NV	.059	U	NV
Indeno(1,2,3-cd)pyrene	mg/kg	.0062	U	NV	.0065	U	NV	.0059	U	NV
Naphthalene	mg/kg	.062	U	NV	.065	U	NV	.059	U	NV
Phenanthrene	mg/kg	.062	U	NV	.065	U	NV	.059	U	NV
Pyrene	mg/kg	.0062	U	NV	.0065	U	NV	.0059	U	NV

APPENDIX F

DATA VALIDATION SUMMARY REPORT

Appendix F

Data Validation Summary Report for the Site Investigation Performed at the Former Printing Plant, Building 143 Basement (Parcel PPMP-138) Fort McClellan, Calhoun County, Alabama

1.0 Introduction

Level III data validation was performed on 100% of the environmental samples collected at Parcel PPMP-138. The analytical data consisted of two sample delivery groups (SDG), PK121381 and PK121382, which were analyzed by Quanterra Incorporated. Both soil and water matrices were validated. In addition, an evaluation of the field split data, which was analyzed by the USACE-SAD laboratory is included in this report. The chemical parameters for which the samples were analyzed, are identified below:

Parameter (Method)
TCL Volatile Organics by GC/MS SW-846 8260B
TCL Semivolatiles by GC/MS SW-846 8270C
Metals by SW-846 6010B and 7471A/7470A

2.0 Procedures

The sample data were validated following the logic identified in the USEPA Contract Laboratory Program (CLP) National Functional Guidelines For Inorganic Data Review (February 1994) and USEPA Contract Laboratory Program National Functional Guidelines For Organic Review (February 1994) for all areas except Blanks. Region III Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses (April 1993) and Region III National Functional Guidelines for Organic Data Review (June 1992) were applied to the areas associated with blank contamination. Specific quality control (QC) criteria, as identified in the Quality Assurance Plan (QAP), analytical methods, and laboratory Standard Operating Procedures (SOP) were applied to all sample results. As the result of the use of Update III SW846 test methods for the analytical data and the application of the CLP guidelines during the validation process, there were instances where specific QC requirements for all target compounds were not defined. This primarily occurred in the organic, Gas Chromatograph (GC) and Gas Chromatograph/Mass Spectra

(GC/MS) calibration areas and is due to the fact that the analytical methods are "performance-based," and allows the use of average calibration responses, in lieu of, individual responses, which are defined by CLP protocol. In light of applying CLP guidelines to SW846 methods and evaluating the usability of the data during the validation process, specific QC criteria were determined to address all target compounds and are identified in this report for each parameter, as well as, in the validation checklists, which function as worksheets. All completed validation checklists are on file in the Knoxville office. For those analytical methods not addressed by the CLP and Region III guidelines, the validation was based on the method requirements (i. e. SW846, CFR, SOPs, QAP) and technical judgement following the logic of the CLP validation guidelines.

3.0 Summary of Data Validation Findings

The overall quality of the data was determined to be acceptable. The only rejected data ("R" qualified) was due to "poor performing" volatile compounds (ketones, some halogenated hydrocarbons, e.g.), which exhibited poor calibration responses in the associated calibration data, and samples that were reanalyzed and have more than one result reported.

Individual validation reports have been prepared for each parameter in each SDG and the overall results of the validation findings are summarized in this report. The validation qualifier data entry verification report (Attachment A) is also provided. This is a complete listing of all of the analytical results and the validation qualifiers assigned for PPMP-138 sites. It also identifies the "use" column, which indicates which result to use in the event of a reanalysis. A listing of the validation qualifiers and the reason codes, along with their definitions is also found in Attachment A. The following section highlights the key findings of the data validation for each analysis.

4.0 Analysis-Specific Data Validation Summaries

4.1 Volatile Organics by GC/MS SW846-8260B

Overall, the data are of good quality and are usable as reported by the laboratory with the exceptions noted below. Data were reviewed for the following:

Holding Times. Technical holding time criteria were met for all samples.

Initial and Continuing Calibration. All initial and continuing calibrations associated with the project samples met QC criteria, with the exceptions of the following:

- The following demonstrated RRFs below 0.1 in the ICAL and/or CCAL: Non-detect results were rejected (qualified "R"); Positive results were estimated (qualified "J"); Unless "B" qualified due to blank contamination

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK121381	KE0001, KE0002, KE0003, KE0004, KE0005, KE0006, KE0007, KE0009, KE0010	Acetone, 2-Butanone, 1,2-Dibromo-3-chloropropane	*B/**R/J
PK121382	KE3001, KE3002	Acetone, 2-Butanone, 1,2-Dibromo-3-chloropropane, Bromochloromethane, Dibromomethane	*B/**R
PK121382	KE3001	Bromomethane	**R

*"B" qualifiers assigned to designate blank contamination, which are identification qualifiers, take precedence over estimating qualifiers, assigned due to quantitation.
**"R" qualifiers take precedence over estimating qualifiers.

- The following exhibited individual ICAL %RSD>30 and/or CCAL %D>20: Non-detect results were estimated (qualified "UJ"); Unless rejected (qualified "R") due to ICAL/CCAL minimum RRF criteria not met; Positive results were estimated (qualified "J"); Unless "B" qualified due to blank contamination.

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK121381	KE0001, KE0002, KE0003, KE0004, KE0005, KE0006, KE0007, KE0009, KE0010	Acetone, Bromomethane, 1,2,3 -Trichlorobenzene, 1,2,4 -Trichlorobenzene, Napthalene, Dichlorodifluoromethane	*B/UJ
PK121381	KE0007	Chloroethane	UJ
PK121382	KE3001	Bromomethane, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Napthalene	**R/UJ
PK121382	KE3002	Methylene Chloride	UJ

*"B" qualifiers assigned to designate blank contamination, which are identification qualifiers, take precedence over estimating qualifiers, assigned due to quantitation.
**"R" qualifiers take precedence over estimating qualifiers.

Blanks. The 5X/10X rule for contaminants found in the associated equipment rinses, trip blanks, and method blanks was applied to all sample results. All were found to be acceptable with the exception of the following:

Note: "B" qualifiers were applied to all of the following sample results.

SDG	Samples Affected	Analyte/Analytes	Associated Blank Contamination
PK121381	KE0001, KE0002, KE0003, KE0005, KE0006, KE0007, KE0009, KE0010	Acetone, Bromomethane, Methylene Chloride	Method/ER
PK121381	KE0004, KE0010	Bromomethane, Methylene Chloride	Method/ER
PK121382	KE3002	Acetone	Method/ER

"B" qualifiers assigned to designate blank contamination, which are identification qualifiers, take precedence over estimating qualifiers, assigned due to quantitation.

Surrogate Recoveries. All surrogate recoveries are within acceptable QC limits.

Matrix Spike/Matrix Spike Duplicate. MS/MSD and Laboratory Control Sample (LCS) was performed for the project samples and all QC criteria were met.

Field Duplicates. Original and field duplicate results were evaluated and no problems were noted, with the exception of the following.

Note: Soil-50% criteria applied. Water-35% criteria applied.

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK121381	KE0006 (original), KE0007 (duplicate)	Acetone, Bromomethane, Methylene Chloride	*B
PK121382	KE3001 (original), KE3003 (duplicate)	1,4 - Dichlorobenzene, Toluene, p-Isopropyltoluene	J

*"B"qualifiers assigned to designate blank contamination, which are identification qualifiers, take precedence over estimating qualifiers, assigned due to quantitation.

Internal Standards. All internal standards met criteria with the exception of the following:

- All compounds associated with the internal standards listed in the table below were qualified as indicated.

SDG	Samples Affected	Internal Standard Outside QC Limits	Validation Qualifier
PK121381	KE0001	1,4-Dichlorobenzene-d4	UJ/J

Quantitation. Results quantified between the MDL and the RL, which the lab qualified as "J" were qualified as estimated "J" unless blank contamination was present or the results were rejected.

4.2 TCL Semivolatiles by GC/MS SW-846 8270C

Overall, the data are of good quality and are usable as reported by the laboratory with the exceptions noted below. Data were reviewed for the following:

Holding Times. Technical holding time criteria were met for all samples.

Initial and Continuing Calibration. All initial and continuing calibrations associated with the project samples met QC criteria with the exceptions of the following:

The following exhibited individual ICAL %RSD>30 and/or CCAL %D>20:

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK121381	KE0001, KE0002, KE0003, KE0004, KE0005	2,4-Dinitrophenol, 4,6 -Dinitro-2-methylphenol	UJ
PK121381	KE0006, KE0007	3-Nitroaniline, 4-Nitroaniline	UJ
PK121381	KE0009	4-Nitrophenol, 2,4-Dinitrophenol, Hexachlorocyclopentadiene	UJ

Blanks. The 5X/10X rule for contaminants found in the associated equipment rinses and method blanks was applied to all sample results. All were found to be acceptable with the exception of the following.

Note: "B" Qualifiers were applied to all of the following sample results.

SDG	Samples Affected	Analyte/Analytes	Associated Blank Contamination
PK121381	KE0003	Benz(a)anthracene, Chrysene	Method

"B" qualifiers assigned to designate blank contamination, which are identification qualifiers, take precedence over estimating qualifiers, assigned due to quantitation.

Surrogate Recoveries. All surrogate recoveries met QC criteria.

Matrix Spike/Matrix Spike Duplicate. MS/MSD and Laboratory Control Sample (LCS) were evaluated and no problems were noted and all QC criteria were met, with the exception of the following:

SDG	Samples Affected	Analyte / Analytes	Validation Qualifier
PK121381	KE0001, KE0002, KE0003, KE0004, KE0005, KE0006, KE0007, KE0009, KE0010	Pyrene	UJ/J

Field Duplicates. Original and field duplicate results were evaluated and no problems were noted, with the exception of the following:

Note: Water-35% RPD criteria applied.

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK121382	KE3001 (original), KE3003 (duplicate)	4-Methylphenol	J

Internal Standards. All internal standards met QC criteria.

Quantitation. Results quantified between the MDL and the RL, which the lab qualified as "J," were qualified as estimated "J" unless blank contamination was present or the results were rejected.

4.3 Metals by SW-846 6010B/7471A/7470A

Overall, the data are of good quality and are usable as reported by the laboratory with the exceptions noted below. Data were reviewed for the following:

Holding Times. Technical holding time criteria were met for all samples.

Initial and Continuing Calibrations. All initial and continuing calibrations associated with the project samples met QC criteria.

Blanks. The 5X rule for contaminants found in the associated equipment rinse, calibration, and method blanks was applied to all sample results. All were acceptable with the exceptions noted below:

Note: "B" Qualifiers were applied to all of the following sample results.

SDG	Samples Affected	Element/Elements	Associated Blank Contamination
PK121381	KE0001, KE0002, KE0003, KE0004, KE0005, KE0006, KE0007, KE0009, KE0010	Sodium	Method/Calibration/ER
PK121381	KE0002, KE0007	Thallium	ER

"B" qualifiers assigned to designate blank contamination, which are identification qualifiers, take precedence over estimating qualifiers, assigned due to quantitation.

Matrix Spike/Matrix Spike Duplicate. Batch QC was performed for the project samples and all QC criteria were met, with the following exceptions:

SDG	Samples Affected	Element/Elements	Validation Qualifier
PK121381	KE0001, KE0002, KE0003, KE0004, KE0005, KE0006, KE0007, KE0009, KE0010	Antimony, Mercury, Lead, Chromium, Vanadium	UJ/J

Laboratory Control Sample (LCS). All QC criteria were met for the LCS associated with the project sample analyses.

Interference Check Sample (ICS). All ICS % recoveries, where applicable, were acceptable.

ICP Serial Dilutions. All QC criteria were met with the following exceptions:

SDG	Samples Affected	Element/Elements	Validation Qualifier
PK121381	KE0001, KE0002, KE0003, KE0004, KE0005, KE0006, KE0007, KE0009, KE0010	Beryllium	J

Field Duplicates. Original and field duplicate results were evaluated and no problems were noted, with the exception of the following:

Note: Soil-50% criteria applied. Water-35% criteria applied.

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK121381	KE0006 (original), KE0007 (duplicate)	Manganese	J
PK121382	KE3001 (original), KE3003 (duplicate)	Aluminum, Manganese	J

Sample Quantitation. Results quantified between the IDL and the RL ("B" flagged by the laboratory) were qualified as estimated (J).

5.0 Quality Assurance Field Split Sample Data Evaluation

Data from the quality assurance split samples supplied to IT by the USACE were reviewed for comparability to the original and field duplicate results. Relative percent differences were calculated and the results are summarized in this section.

Field Split Data for SDG PK121381

Note: Field Split Laboratory - Specialized Assays, Inc., Nashville, Tennessee.

Original Sample ID	Field Duplicate ID	Field Split ID
KE0006	KE0007	KE0008

Comments

- ***Metals.*** A majority of the same metals above the reporting limit were found in all three samples. Magnesium, manganese, aluminum, potassium, and sodium, had high RPD values. Manganese, and aluminum results were above the reporting/quantitation limit. Differences attributed to non-homogeneity in soil samples and/or FS lab not reporting results below the reporting limit.

- ***Volatiles.*** No volatiles were found in the FS sample. All volatiles (including common lab contaminants) found in the original and the FD samples were below the reporting limit. Differences attributed to sample homogeneity and/or FS lab not reporting results below the reporting limit.

- ***Semivolatiles.*** No semivolatiles were detected in any of the three samples.

Field Split Data for SDG PK121382

Note: Field Split Laboratory - Specialized Assays, Inc., Nashville, Tennessee

Original Sample ID	Field Duplicate ID	Field Split ID
KE3001	KE3002	KE3003

Comments

- ***Metals.*** All of the same metals were detected in all three samples. Aluminum, the only metal with RPD values above the QC limit, was detected below the reporting limit in the original and field duplicate. Differences attributed to sample homogeneity and/or FS lab not reporting results below the reporting limit.

- ***Volatiles.*** A majority of the same volatiles were detected in all three samples. Acetone, and methylene chloride, the only volatiles not detected in all samples are common laboratory contaminants. Toluene, p-isopropyltoluene, and 1,4-

dichlorobenzene had RPD values above the QC limits. Toluene and 1,4-dichlorobenzene were detected below the reporting limit in the original and FD samples. Differences attributed to sample homogeneity and/or FS lab not reporting results below the reporting limit.

- ***Semivolatiles.*** 4-Methylphenol, was the only semivolatile detected in all three samples, and was within QC limits.

ATTACHMENT A

DATA VALIDATION QUALIFIER ENTRY VERIFICATION REPORT

Validation Qualifiers

U Not detected. The compound/analyte was analyzed for, but not detected above the associated reporting limit.

J The compound/analyte was positively identified; the reported value is the estimated concentration of the constituent detected in the sample analyzed.

B The concentration reported was detected significantly above the levels reported in the associated equipment rinse samples and/or laboratory method and trip blanks. (5X/10X Rule was applied).

R The reported sample results are rejected due to the following:

1. Severe deficiencies in the supporting quality control data.
2. Anomalies noted in the sampling and/or analysis process which could affect the validity of the reported data.
3. The presence or absence of the constituent cannot be verified based on the data provided.
4. To indicate not to use a particular result in the event of a reanalysis.

UJ The compound/analyte was analyzed for, but not detected above the established reporting limit. However, review and evaluation of supporting QC data and/or sampling and analysis process have indicated that the 'non-detect' maybe inaccurate or imprecise. The non-detect result should be estimated.

Validation Reason Code Definitions

Reason Code	Description
01	Sample received outside of 4+/-2 degrees Celsius
01A	Improper sample preservation
02	Holding Time Exceeded
02A	Extraction
02B	Analysis
03	Instrument Performance - Outside Criteria
03A	BFB
03B	DFTPP
03C	DDT and/or Endrin % breakdown exceeds criteria
03D	retention time windows
03E	Resolution
04	Initial calibration results outside specified criteria
04A	Compound mean RRF QC criteria not met
04B	Individual % RSD criteria not met
04C	Correlation coefficient <0.995
05	Continuing calibration results outside specified criteria
05A	Compound mean RRF QC criteria not met
05B	Compound % D QC criteria not met
06	Result qualified as a result of the 5x/10x blank correction
06A	Method or preparation blank
06B	ICB or CCB
06C	ER
06D	TB
06E	FB
07	Surrogate recoveries outside control limits
07A	Sample
07B	Associated method blank or LCS
08	MS/MSD/Duplicate results outside criteria
08A	MS and/or MSD recovery not within control limits (accuracy)
08B	% RPD outside acceptance criteria (precision)
09	Post digestion spike outside criteria (GFAA)
10	Internal standards outside specified control limits

Validation Reason Code Definitions

Reason Code	Description
10A	Recovery
10B	Retention Time
11	Laboratory control sample recoveries outside specified control limits
11A	Recovery
11B	% RPD (if run in duplicate)
12	Interference check standard
13	Serial dilution
14	Tentatively identified compounds
15	Quantitation
16	Multiple results available; alternate analysis preferred
17	Field duplicate RPD criteria is exceeded
18	Percent difference between original and second column exceeds QC criteria
19	Professional judgement was used to qualify the data
20	Pesticide clean-up checks
21	Target compound identification
22	Radiological calibration
23	Radiological quantitation
24	Reported result and/or lab qualifier revised to reflect validation findings

Validation Qualif Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0001	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQ3MLS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	9350	mg/kg		Y	Y	P						CQ3MLS	22:33
						ANTIMONY	7.0	mg/kg	U	N	Y	U	UJ	08A				CQ3MLS	22:33
						ARSENIC	9.5	mg/kg		Y	Y	P						CQ3MLS	22:33
						BARIUM	114	mg/kg		Y	Y	P						CQ3MLS	22:33
						BERYLLIUM	0.58	mg/kg		Y	Y	P	J	13				CQ3MLS	22:33
						CADMIUM	0.58	mg/kg	U	N	Y	U	U					CQ3MLS	22:33
						CALCIUM	3890	mg/kg		Y	Y	P						CQ3MLS	22:33
						CHROMIUM	18.2	mg/kg		Y	Y	P	J	08A	08B			CQ3MLS	22:33
						COBALT	4.4	mg/kg	B	Y	Y	P	J	15				CQ3MLS	22:33
						COPPER	29.4	mg/kg		Y	Y	P						CQ3MLS	22:33
						IRON	15000	mg/kg		Y	Y	P						CQ3MLS	22:33
						LEAD	71.8	mg/kg		Y	Y	P	J	08A				CQ3MLS	22:33
						MAGNESIUM	561	mg/kg	B	Y	Y	P	J	15				CQ3MLS	22:33
						MANGANESE	548	mg/kg		Y	Y	P						CQ3MLS	22:33
						NICKEL	5.8	mg/kg		Y	Y	P						CQ3MLS	22:33
						POTASSIUM	168	mg/kg	B	Y	Y	P	J	15				CQ3MLS	22:33
						SELENIUM	1.2	mg/kg		Y	Y	P						CQ3MLS	22:33
						SILVER	1.2	mg/kg	U	N	Y	U	U					CQ3MLS	22:33
						SODIUM	69.9	mg/kg	B	Y	Y	F	B	06A	06B	06C	15	CQ3MLS	22:33
						THALLIUM	1.2	mg/kg	U	N	Y	U	U					CQ3MLS	22:33
						VANADIUM	26.1	mg/kg		Y	Y	P	J	08A				CQ3MLS	22:33
	SW6010	SW3050	N	1	1	ZINC	71.2	mg/kg		Y	Y	P						CQ3MLS	13:49
	SW7471	TOTAL	N	0	1	MERCURY	0.010	mg/kg	B	Y	Y	P	J	08A	15			CQ3MLS	13:49
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MLS	10:15
						1,1,1-TRICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MLS	10:15
						1,1,2,2-TETRACHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MLS	10:15
						1,1,2-TRICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MLS	10:15
						1,1-DICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MLS	10:15
						1,1-DICHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CQ3MLS	10:15
						1,1-DICHLOROPROPENE	.0058	mg/kg	U	N	Y	U	U					CQ3MLS	10:15
						1,2,3-TRICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	UJ	04B	05B	10A		CQ3MLS	10:15
						1,2,3-TRICHLOROPROPANE	.0058	mg/kg	U	N	Y	U	UJ	10A				CQ3MLS	10:15
						1,2,4-TRICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	UJ	04B	10A			CQ3MLS	10:15
						1,2,4-TRIMETHYLBENZENE	.0058	mg/kg	U	N	Y	U	UJ	10A				CQ3MLS	10:15
						1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N	Y	U	R	04A	05A	10A		CQ3MLS	10:15
						1,2-DIBROMOETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MLS	10:15
						1,2-DICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	UJ	10A				CQ3MLS	10:15
						1,2-DICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MLS	10:15
						1,2-DICHLOROPROPANE	.0058	mg/kg	U	N	Y	U	U					CQ3MLS	10:15
						1,3,5-TRIMETHYLBENZENE	.0058	mg/kg	U	N	Y	U	UJ	10A				CQ3MLS	10:15
						1,3-DICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	UJ	10A				CQ3MLS	10:15
						1,3-DICHLOROPROPANE	.0058	mg/kg	U	N	Y	U	U					CQ3MLS	10:15

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0001	SW8260	SW5030	N 0 1	1,4-DICHLOROBENZENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ3MLS	10:15
				2,2-DICHLOROPROPANE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				2-BUTANONE	.023	mg/kg	U	N Y U	R	04A	05A			CQ3MLS	10:15
				2-CHLOROTOLUENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ3MLS	10:15
				2-HEXANONE	.023	mg/kg	U	N Y U	U					CQ3MLS	10:15
				4-CHLOROTOLUENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ3MLS	10:15
				4-METHYL-2-PENTANONE	.023	mg/kg	U	N Y U	U					CQ3MLS	10:15
				ACETONE	.0094	mg/kg	J B	Y Y F	B	04	05A	06A	15	CQ3MLS	10:15
				BENZENE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				BROMOBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				BROMOCHLOROMETHANE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				BROMODICHLOROMETHANE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				BROMOFORM	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				BROMOMETHANE	.0025	mg/kg	J B	Y Y F	B	04B	05B	06A	15	CQ3MLS	10:15
				CARBON DISULFIDE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				CARBON TETRACHLORIDE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				CHLOROBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				CHLORODIBROMOMETHANE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				CHLOROETHANE	.012	mg/kg	U	N Y U	U					CQ3MLS	10:15
				CHLOROFORM	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				CHLOROMETHANE	.012	mg/kg	U	N Y U	U					CQ3MLS	10:15
				CIS-1,2-DICHLOROETHENE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				CIS-1,3-DICHLOROPROPENE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				DIBROMOMETHANE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N Y U	UJ	05B				CQ3MLS	10:15
				ETHYLBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				HEXACHLOROBUTADIENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ3MLS	10:15
				ISOPROPYLBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				M-XYLENE & P-XYLENE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				METHYLENE CHLORIDE	.0032	mg/kg	J B	Y Y F	B	06A	06C	15		CQ3MLS	10:15
				N-BUTYLBENZENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ3MLS	10:15
				N-PROPYLBENZENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ3MLS	10:15
				NAPHTHALENE	.0058	mg/kg	U	N Y U	UJ	04B	05B	10A		CQ3MLS	10:15
				O-XYLENE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				P-ISOPROPYLTOLUENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ3MLS	10:15
				SEC-BUTYLBENZENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ3MLS	10:15
				STYRENE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				TERT-BUTYLBENZENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ3MLS	10:15
				TETRACHLOROETHENE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				TOLUENE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				TRANS-1,2-DICHLOROETHENE	.0058	mg/kg	U	N Y U	U					CQ3MLS	10:15
				TRANS-1,3-DICHLOROPROPENE	.0058	mg/kg	U	N Y U	U					CQ3M[illegible]	10:15
				TRICHLOROETHENE	.0058	mg/kg	U	N Y U	U					CQ3M[illegible]	[illegible]5
				TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N Y U	U					CQ3[illegible]	10:15

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0001	SW8260	SW5030	N	0	1	VINYL CHLORIDE	.012	mg/kg	U	N	Y	U	U					CQ3MLS	10:15
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						1,2-DICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						1,3-DICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						1,4-DICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						2,2'-OXYBIS(1-CHLOROPROPANE)	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						2,4,5-TRICHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						2,4,6-TRICHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						2,4-DICHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						2,4-DIMETHYLPHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						2,4-DINITROPHENOL	1.9	mg/kg	U	N	Y	U	UJ	05B				CQ3MLS	15:27
						2,4-DINITROTOLUENE	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						2,6-DINITROTOLUENE	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						2-CHLORONAPHTHALENE	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						2-CHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						2-METHYLNAPHTHALENE	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						2-METHYLPHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						2-NITROANILINE	1.9	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						2-NITROPHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						3,3'-DICHLOROBENZIDINE	1.9	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						3-NITROANILINE	1.9	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						4,6-DINITRO-2-METHYLPHENOL	1.9	mg/kg	U	N	Y	U	UJ	05B				CQ3MLS	15:27
						4-BROMOPHENYL PHENYL ETHER	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						4-CHLORO-3-METHYLPHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						4-CHLOROANILINE	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						4-CHLOROPHENYL PHENYL ETHER	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						4-METHYLPHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						4-NITROANILINE	1.9	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						4-NITROPHENOL	1.9	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						ACENAPHTHENE	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						ACENAPHTHYLENE	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						ANTHRACENE	.092	mg/kg	J	Y	Y	P	J	15				CQ3MLS	15:27
						BENZ(A)ANTHRACENE	.32	mg/kg	J B	Y	Y	P	J	15				CQ3MLS	15:27
						BENZO(A)PYRENE	.29	mg/kg	J	Y	Y	P	J	15				CQ3MLS	15:27
						BENZO(B)FLUORANTHENE	.39	mg/kg		Y	Y	P						CQ3MLS	15:27
						BENZO(GHI)PERYLENE	.17	mg/kg	J	Y	Y	P	J	15				CQ3MLS	15:27
						BENZO(K)FLUORANTHENE	.15	mg/kg	J	Y	Y	P	J	15				CQ3MLS	15:27
						BIS(2-CHLOROETHOXY)METHANE	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						BIS(2-CHLOROETHYL) ETHER	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						BIS(2-ETHYLHEXYL) PHTHALATE	.045	mg/kg	J	Y	Y	P	J	15				CQ3MLS	15:27
						BUTYL BENZYL PHTHALATE	.38	mg/kg	U	N	Y	U	U					CQ3MLS	15:27
						CARBAZOLE	.069	mg/kg	J	Y	Y	P	J	15				CQ3MLS	15:27
						CHRYSENE	.32	mg/kg	J B	Y	Y	P	J	15				CQ3MLS	15:27

Validation Qualifier Data Entry Verification

Fort McClellan

Run Date: September 27, 2000

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0001	SW8270	SW3550	N 0 1	DI-N-BUTYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				DI-N-OCTYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				DIBENZ(A,H)ANTHRACENE	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				DIBENZOFURAN	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				DIETHYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				DIMETHYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				FLUORANTHENE	.74	mg/kg		Y Y P						CQ3MLS	15:27
				FLUORENE	.042	mg/kg	J	Y Y P	J	15				CQ3MLS	15:27
				HEXACHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				HEXACHLOROBUTADIENE	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				HEXACHLOROCYCLOPENTADIENE	1.9	mg/kg	U	N Y U	U					CQ3MLS	15:27
				HEXACHLOROETHANE	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				INDENO(1,2,3-CD)PYRENE	.18	mg/kg	J	Y Y P	J	15				CQ3MLS	15:27
				ISOPHORONE	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				N-NITROSODI-N-PROPYLAMINE	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				N-NITROSODIPHENYLAMINE	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				NAPHTHALENE	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				NITROBENZENE	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				PENTACHLOROPHENOL	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				PHENANTHRENE	.45	mg/kg		Y Y P						CQ3MLS	15:27
				PHENOL	.38	mg/kg	U	N Y U	U					CQ3MLS	15:27
				PYRENE	.52	mg/kg		Y Y P	J	08A				CQ3MLS	15:27
KE0002	D2216	NONE	N 0 1	PERCENT MOISTURE				Y Y P						CQ3MPS	00:00
	SW6010	SW3050	N 0 1	ALUMINUM	11800	mg/kg		Y Y P						CQ3MPS	22:28
				ANTIMONY	7.6	mg/kg	U	N Y U	UJ	08A				CQ3MPS	22:28
				ARSENIC	8.4	mg/kg		Y Y P						CQ3MPS	22:28
				BARIUM	23.3	mg/kg	B	Y Y P	J	15				CQ3MPS	22:28
				BERYLLIUM	0.43	mg/kg	B	Y Y P	J	13	15			CQ3MPS	22:28
				CADMIUM	0.63	mg/kg	U	N Y U	U					CQ3MPS	22:28
				CALCIUM	357	mg/kg	B	Y Y P	J	15				CQ3MPS	22:28
				CHROMIUM	41.1	mg/kg		Y Y P	J	08A	08B			CQ3MPS	22:28
				COBALT	1.1	mg/kg	B	Y Y P	J	15				CQ3MPS	22:28
				COPPER	26.7	mg/kg		Y Y P						CQ3MPS	22:28
				LEAD	13.9	mg/kg		Y Y P	J	08A				CQ3MPS	22:28
				MAGNESIUM	122	mg/kg	B	Y Y P	J	15				CQ3MPS	22:28
				MANGANESE	20.2	mg/kg		Y Y P						CQ3MPS	22:28
				NICKEL	1.4	mg/kg	B	Y Y P	J	15				CQ3MPS	22:28
				POTASSIUM	354	mg/kg	B	Y Y P	J	15				CQ3MPS	22:28
				SELENIUM	3.5	mg/kg		Y Y P						CQ3MPS	22:28
				SILVER	1.3	mg/kg	U	N Y U	U					CQ3MPS	22:28
				SODIUM	80.4	mg/kg	B	Y Y F	B	06A	06B	06C	15	CQ3MPS	22:28
				THALLIUM	0.70	mg/kg	B	Y Y F	B	06C	15			CQ3[illegible]	[illegible]28
				VANADIUM	50.9	mg/kg		Y Y P	J	08A				CQ3[illegible]	[illegible]8

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0002	SW6010	SW3050	N	1	1	ZINC	20.1	mg/kg		Y	Y	P						CQ3MPS	14:08
	SW6010	SW3050	N	2	4	IRON	69500	mg/kg		Y	Y	P						CQ3MPS	01:05
	SW7471	TOTAL	N	0	1	MERCURY	0.042	mg/kg		Y	Y	P	J	08A				CQ3MPS	13:59
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,1,1-TRICHLOROETHANE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,1,2,2-TETRACHLOROETHANE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,1,2-TRICHLOROETHANE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,1-DICHLOROETHANE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,1-DICHLOROETHENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,1-DICHLOROPROPENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,2,3-TRICHLOROBENZENE	.0063	mg/kg	U	N	Y	U	UJ	04B	05B			CQ3MPS	11:05
						1,2,3-TRICHLOROPROPANE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,2,4-TRICHLOROBENZENE	.0063	mg/kg	U	N	Y	U	UJ	04B				CQ3MPS	11:05
						1,2,4-TRIMETHYLBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,2-DIBROMO-3-CHLOROPROPANE	.013	mg/kg	U	N	Y	U	R	04A	05A			CQ3MPS	11:05
						1,2-DIBROMOETHANE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,2-DICHLOROBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,2-DICHLOROETHANE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,2-DICHLOROPROPANE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,3,5-TRIMETHYLBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,3-DICHLOROBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,3-DICHLOROPROPANE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						1,4-DICHLOROBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						2,2-DICHLOROPROPANE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						2-BUTANONE	.025	mg/kg	U	N	Y	U	R	04A	05A			CQ3MPS	11:05
						2-CHLOROTOLUENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						2-HEXANONE	.025	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						4-CHLOROTOLUENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						4-METHYL-2-PENTANONE	.025	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						ACETONE	.012	mg/kg	J B	Y	Y	F	B	04	05A	06A	15	CQ3MPS	11:05
						BENZENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						BROMOBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						BROMOCHLOROMETHANE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						BROMODICHLOROMETHANE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						BROMOFORM	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						BROMOMETHANE	.0026	mg/kg	J B	Y	Y	F	B	04B	05B	06A	15	CQ3MPS	11:05
						CARBON DISULFIDE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						CARBON TETRACHLORIDE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						CHLOROBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						CHLORODIBROMOMETHANE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						CHLOROETHANE	.013	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						CHLOROFORM	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						CHLOROMETHANE	.013	mg/kg	U	N	Y	U	U					CQ3M	11:05

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0002	SW8260	SW5030	N	0	1	CIS-1,2-DICHLOROETHENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						CIS-1,3-DICHLOROPROPENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						DIBROMOMETHANE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						DICHLORODIFLUOROMETHANE	.013	mg/kg	U	N	Y	U	UJ	05B				CQ3MPS	11:05
						ETHYLBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						HEXACHLOROBUTADIENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						ISOPROPYLBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						M-XYLENE & P-XYLENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						METHYLENE CHLORIDE	.0036	mg/kg	J B	Y	Y	F	B	06A	06C	15		CQ3MPS	11:05
						N-BUTYLBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						N-PROPYLBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						NAPHTHALENE	.0063	mg/kg	U	N	Y	U	UJ	04B	05B			CQ3MPS	11:05
						O-XYLENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						P-ISOPROPYLTOLUENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						SEC-BUTYLBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						STYRENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						TERT-BUTYLBENZENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						TETRACHLOROETHENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						TOLUENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						TRANS-1,2-DICHLOROETHENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						TRANS-1,3-DICHLOROPROPENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						TRICHLOROETHENE	.0063	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						TRICHLOROFLUOROMETHANE	.013	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
						VINYL CHLORIDE	.013	mg/kg	U	N	Y	U	U					CQ3MPS	11:05
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						1,2-DICHLOROBENZENE	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						1,3-DICHLOROBENZENE	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						1,4-DICHLOROBENZENE	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						2,2'-OXYBIS(1-CHLOROPROPANE)	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						2,4,5-TRICHLOROPHENOL	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						2,4,6-TRICHLOROPHENOL	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						2,4-DICHLOROPHENOL	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						2,4-DIMETHYLPHENOL	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						2,4-DINITROPHENOL	2	mg/kg	U	N	Y	U	UJ	05B				CQ3MPS	17:17
						2,4-DINITROTOLUENE	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						2,6-DINITROTOLUENE	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						2-CHLORONAPHTHALENE	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						2-CHLOROPHENOL	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						2-METHYLNAPHTHALENE	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						2-METHYLPHENOL	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						2-NITROANILINE	2	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						2-NITROPHENOL	.42	mg/kg	U	N	Y	U	U					CQ3MPS	17:17
						3,3'-DICHLOROBENZIDINE	2	mg/kg	U	N	Y	U	U					CQ3MPS	17:17

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0002	SW8270	SW3550	N 0 1	3-NITROANILINE	2	mg/kg	U	N Y U	U					CQ3MPS	17:17
				4,6-DINITRO-2-METHYLPHENOL	2	mg/kg	U	N Y U	UJ	05B				CQ3MPS	17:17
				4-BROMOPHENYL PHENYL ETHER	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				4-CHLORO-3-METHYLPHENOL	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				4-CHLOROANILINE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				4-CHLOROPHENYL PHENYL ETHER	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				4-METHYLPHENOL	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				4-NITROANILINE	2	mg/kg	U	N Y U	U					CQ3MPS	17:17
				4-NITROPHENOL	2	mg/kg	U	N Y U	U					CQ3MPS	17:17
				ACENAPHTHENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				ACENAPHTHYLENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				ANTHRACENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				BENZ(A)ANTHRACENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				BENZO(A)PYRENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				BENZO(B)FLUORANTHENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				BENZO(GHI)PERYLENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				BENZO(K)FLUORANTHENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				BIS(2-CHLOROETHOXY)METHANE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				BIS(2-CHLOROETHYL) ETHER	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				BIS(2-ETHYLHEXYL) PHTHALATE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				BUTYL BENZYL PHTHALATE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				CARBAZOLE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				CHRYSENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				DI-N-BUTYL PHTHALATE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				DI-N-OCTYL PHTHALATE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				DIBENZ(A,H)ANTHRACENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				DIBENZOFURAN	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				DIETHYL PHTHALATE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				DIMETHYL PHTHALATE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				FLUORANTHENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				FLUORENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				HEXACHLOROBENZENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				HEXACHLOROBUTADIENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				HEXACHLOROCYCLOPENTADIENE	2	mg/kg	U	N Y U	U					CQ3MPS	17:17
				HEXACHLOROETHANE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				INDENO(1,2,3-CD)PYRENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				ISOPHORONE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				N-NITROSODI-N-PROPYLAMINE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				N-NITROSODIPHENYLAMINE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				NAPHTHALENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				NITROBENZENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				PENTACHLOROPHENOL	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				PHENANTHRENE	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17
				PHENOL	.42	mg/kg	U	N Y U	U					CQ3MPS	17:17

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0002	SW8270	SW3550	N	0	1	PYRENE	.42	mg/kg	U	N	Y	U	UJ	08A				CQ3MPS	17:17
KE0003	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQ3MQS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	7500	mg/kg		Y	Y	P						CQ3MQS	23:04
						ANTIMONY	7.1	mg/kg	U	N	Y	U	UJ	08A				CQ3MQS	23:04
						ARSENIC	10.1	mg/kg		Y	Y	P						CQ3MQS	23:04
						BARIUM	77.6	mg/kg		Y	Y	P						CQ3MQS	23:04
						BERYLLIUM	0.58	mg/kg	B	Y	Y	P	J	13	15			CQ3MQS	23:04
						CADMIUM	0.60	mg/kg	U	N	Y	U	U					CQ3MQS	23:04
						CALCIUM	787	mg/kg		Y	Y	P						CQ3MQS	23:04
						CHROMIUM	13.6	mg/kg		Y	Y	P	J	08A	08B			CQ3MQS	23:04
						COBALT	5.6	mg/kg	B	Y	Y	P	J	15				CQ3MQS	23:04
						COPPER	77.8	mg/kg		Y	Y	P						CQ3MQS	23:04
						IRON	13400	mg/kg		Y	Y	P						CQ3MQS	23:04
						LEAD	69.9	mg/kg		Y	Y	P	J	08A				CQ3MQS	23:04
						MAGNESIUM	243	mg/kg	B	Y	Y	P	J	15				CQ3MQS	23:04
						MANGANESE	842	mg/kg		Y	Y	P						CQ3MQS	23:04
						NICKEL	5.4	mg/kg		Y	Y	P						CQ3MQS	23:04
						POTASSIUM	180	mg/kg	B	Y	Y	P	J	15				CQ3MQS	23:04
						SELENIUM	0.83	mg/kg		Y	Y	P						CQ3MQS	23:04
						SILVER	1.2	mg/kg	U	N	Y	U	U					CQ3MQS	23:04
						SODIUM	90.6	mg/kg	B	Y	Y	F	B	06A	06B	06C	15	CQ3MQS	23:04
						THALLIUM	1.2	mg/kg	U	N	Y	U	U					CQ3MQS	23:04
						VANADIUM	19.6	mg/kg		Y	Y	P	J	08A				CQ3MQS	23:04
	SW6010	SW3050	N	1	1	ZINC	67.2	mg/kg		Y	Y	P						CQ3MQS	14:13
	SW7471	TOTAL	N	0	1	MERCURY	0.17	mg/kg		Y	Y	P	J	08A				CQ3MQS	14:02
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.006	mg/kg	U	N	Y	U	U					CQ3MQS	11:29
						1,1,1-TRICHLOROETHANE	.006	mg/kg	U	N	Y	U	U					CQ3MQS	11:29
						1,1,2,2-TETRACHLOROETHANE	.006	mg/kg	U	N	Y	U	U					CQ3MQS	11:29
						1,1,2-TRICHLOROETHANE	.006	mg/kg	U	N	Y	U	U					CQ3MQS	11:29
						1,1-DICHLOROETHANE	.006	mg/kg	U	N	Y	U	U					CQ3MQS	11:29
						1,1-DICHLOROETHENE	.006	mg/kg	U	N	Y	U	U					CQ3MQS	11:29
						1,1-DICHLOROPROPENE	.006	mg/kg	U	N	Y	U	U					CQ3MQS	11:29
						1,2,3-TRICHLOROBENZENE	.006	mg/kg	U	N	Y	U	UJ	04B	05B			CQ3MQS	11:29
						1,2,3-TRICHLOROPROPANE	.006	mg/kg	U	N	Y	U	U					CQ3MQS	11:29
						1,2,4-TRICHLOROBENZENE	.006	mg/kg	U	N	Y	U	UJ	04B				CQ3MQS	11:29
						1,2,4-TRIMETHYLBENZENE	.006	mg/kg	U	N	Y	U	U					CQ3MQS	11:29
						1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N	Y	U	R	04A	05A			CQ3MQS	11:29
						1,2-DIBROMOETHANE	.006	mg/kg	U	N	Y	U	U					CQ3MQS	11:29
						1,2-DICHLOROBENZENE	.006	mg/kg	U	N	Y	U	U					CQ3MQS	11:29
						1,2-DICHLOROETHANE	.006	mg/kg	U	N	Y	U	U					CQ3M[illegible]	11:29
						1,2-DICHLOROPROPANE	.006	mg/kg	U	N	Y	U	U					CQ[illegible]	11:29
						1,3,5-TRIMETHYLBENZENE	.006	mg/kg	U	N	Y	U	U					CQ3M[illegible]	11:29
						1,3-DICHLOROBENZENE	006	mg/kg	U	N	Y	U	U					CQ3[illegible]	11:29

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0003	SW8260	SW5030	N 0 1	1,3-DICHLOROPROPANE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				1,4-DICHLOROBENZENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				2,2-DICHLOROPROPANE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				2-BUTANONE	.024	mg/kg	U	N Y U	R	04A	05A			CQ3MQS	11:29
				2-CHLOROTOLUENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				2-HEXANONE	.024	mg/kg	U	N Y U	U					CQ3MQS	11:29
				4-CHLOROTOLUENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				4-METHYL-2-PENTANONE	.024	mg/kg	U	N Y U	U					CQ3MQS	11:29
				ACETONE	.046	mg/kg	B	Y Y F	B	04A	04B	05A	06A	CQ3MQS	11:29
				BENZENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				BROMOBENZENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				BROMOCHLOROMETHANE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				BROMODICHLOROMETHANE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				BROMOFORM	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				BROMOMETHANE	.0017	mg/kg	J B	Y Y F	B	04B	05B	06A	15	CQ3MQS	11:29
				CARBON DISULFIDE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				CARBON TETRACHLORIDE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				CHLOROBENZENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				CHLORODIBROMOMETHANE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				CHLOROETHANE	.012	mg/kg	U	N Y U	U					CQ3MQS	11:29
				CHLOROFORM	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				CHLOROMETHANE	.012	mg/kg	U	N Y U	U					CQ3MQS	11:29
				CIS-1,2-DICHLOROETHENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				CIS-1,3-DICHLOROPROPENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				DIBROMOMETHANE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N Y U	UJ	05B				CQ3MQS	11:29
				ETHYLBENZENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				HEXACHLOROBUTADIENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				ISOPROPYLBENZENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				M-XYLENE & P-XYLENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				METHYLENE CHLORIDE	.0032	mg/kg	J B	Y Y F	B	06A	06C	15		CQ3MQS	11:29
				N-BUTYLBENZENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				N-PROPYLBENZENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				NAPHTHALENE	.006	mg/kg	U	N Y U	UJ	04B	05B			CQ3MQS	11:29
				O-XYLENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				P-ISOPROPYLTOLUENE	.015	mg/kg		Y Y P						CQ3MQS	11:29
				SEC-BUTYLBENZENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				STYRENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				TERT-BUTYLBENZENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				TETRACHLOROETHENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				TOLUENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				TRANS-1,2-DICHLOROETHENE	.006	mg/kg	U	N Y U	U					CQ3MQS	11:29
				TRANS-1,3-DICHLOROPROPENE	.006	mg/kg	U	N Y U	U						
				TRICHLOROETHENE	.006	mg/kg	U	N Y U	U					CQ3MQS	[illegible]

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0003	SW8260	SW5030	N	0	1	TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQ3MQS	11:29
						VINYL CHLORIDE	.012	mg/kg	U	N	Y	U	U					CQ3MQS	11:29
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						1,2-DICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						1,3-DICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						1,4-DICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						2,2'-OXYBIS(1-CHLOROPROPANE)	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						2,4,5-TRICHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						2,4,6-TRICHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						2,4-DICHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						2,4-DIMETHYLPHENOL	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						2,4-DINITROPHENOL	1.9	mg/kg	U	N	Y	U	UJ	05B				CQ3MQS	17:54
						2,4-DINITROTOLUENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						2,6-DINITROTOLUENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						2-CHLORONAPHTHALENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						2-CHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						2-METHYLNAPHTHALENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						2-METHYLPHENOL	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						2-NITROANILINE	1.9	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						2-NITROPHENOL	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						3,3'-DICHLOROBENZIDINE	1.9	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						3-NITROANILINE	1.9	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						4,6-DINITRO-2-METHYLPHENOL	1.9	mg/kg	U	N	Y	U	UJ	05B				CQ3MQS	17:54
						4-BROMOPHENYL PHENYL ETHER	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						4-CHLORO-3-METHYLPHENOL	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						4-CHLOROANILINE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						4-CHLOROPHENYL PHENYL ETHER	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						4-METHYLPHENOL	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						4-NITROANILINE	1.9	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						4-NITROPHENOL	1.9	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						ACENAPHTHENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						ACENAPHTHYLENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						ANTHRACENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						BENZ(A)ANTHRACENE	.05	mg/kg	J B	Y	Y	F	B	06A	15			CQ3MQS	17:54
						BENZO(A)PYRENE	.05	mg/kg	J	Y	Y	P	J	15				CQ3MQS	17:54
						BENZO(B)FLUORANTHENE	.078	mg/kg	J	Y	Y	P	J	15				CQ3MQS	17:54
						BENZO(GHI)PERYLENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						BENZO(K)FLUORANTHENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						BIS(2-CHLOROETHOXY)METHANE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						BIS(2-CHLOROETHYL) ETHER	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						BIS(2-ETHYLHEXYL) PHTHALATE	.16	mg/kg	J	Y	Y	P	J	15				CQ3MQS	17:54
						BUTYL BENZYL PHTHALATE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						CARBAZOLE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0003	SW8270	SW3550	N	0	1	CHRYSENE	.059	mg/kg	J B	Y	Y	F	B	06A	15			CQ3MQS	17:54
						DI-N-BUTYL PHTHALATE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						DI-N-OCTYL PHTHALATE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						DIBENZ(A,H)ANTHRACENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						DIBENZOFURAN	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						DIETHYL PHTHALATE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						DIMETHYL PHTHALATE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						FLUORANTHENE	.1	mg/kg	J	Y	Y	P	J	15				CQ3MQS	17:54
						FLUORENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						HEXACHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						HEXACHLOROBUTADIENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						HEXACHLOROCYCLOPENTADIENE	1.9	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						HEXACHLOROETHANE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						INDENO(1,2,3-CD)PYRENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						ISOPHORONE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						N-NITROSODI-N-PROPYLAMINE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						N-NITROSODIPHENYLAMINE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						NAPHTHALENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						NITROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						PENTACHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						PHENANTHRENE	.054	mg/kg	J	Y	Y	P	J	15				CQ3MQS	17:54
						PHENOL	.39	mg/kg	U	N	Y	U	U					CQ3MQS	17:54
						PYRENE	.076	mg/kg	J	Y	Y	P	J	15	08A			CQ3MQS	17:54
KE0004	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQ3MRS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	7540	mg/kg		Y	Y	P						CQ3MRS	23:10
						ANTIMONY	7.0	mg/kg	U	N	Y	U	UJ	08A				CQ3MRS	23:10
						ARSENIC	3.0	mg/kg		Y	Y	P						CQ3MRS	23:10
						BARIUM	40.5	mg/kg		Y	Y	P						CQ3MRS	23:10
						BERYLLIUM	0.36	mg/kg	B	Y	Y	P	J	13	15			CQ3MRS	23:10
						CADMIUM	0.58	mg/kg	U	N	Y	U	U					CQ3MRS	23:10
						CALCIUM	426	mg/kg	B	Y	Y	P	J	15				CQ3MRS	23:10
						CHROMIUM	8.3	mg/kg		Y	Y	P	J	08A	08B			CQ3MRS	23:10
						COBALT	2.4	mg/kg	B	Y	Y	P	J	15				CQ3MRS	23:10
						COPPER	7.2	mg/kg		Y	Y	P						CQ3MRS	23:10
						IRON	8910	mg/kg		Y	Y	P						CQ3MRS	23:10
						LEAD	10.2	mg/kg		Y	Y	P	J	08A				CQ3MRS	23:10
						MAGNESIUM	195	mg/kg	B	Y	Y	P	J	15				CQ3MRS	23:10
						MANGANESE	89.2	mg/kg		Y	Y	P						CQ3MRS	23:10
						NICKEL	3.0	mg/kg	B	Y	Y	P	J	15				CQ3MRS	23:10
						POTASSIUM	119	mg/kg	B	Y	Y	P	J	15				CQ3MRS	23:10
						SELENIUM	0.77	mg/kg		Y	Y	P						CQ3MRS	23:10
						SILVER	1.2	mg/kg	U	N	Y	U	U					CQ3MRS	23:10
						SODIUM	67.4	mg/kg	B	Y	Y	F	B	06A	06B	06C	15	CQ3MRS	23:10

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0004	SW6010	SW3050	N	0	1	THALLIUM	1.2	mg/kg	U	N	Y	U	U					CQ3MRS	23:10
						VANADIUM	14.6	mg/kg		Y	Y	P	J	08A				CQ3MRS	23:10
	SW6010	SW3050	N	1	1	ZINC	32.6	mg/kg		Y	Y	P						CQ3MRS	14:18
	SW7471	TOTAL	N	0	1	MERCURY	0.037	mg/kg	B	Y	Y	P	J	08A	15			CQ3MRS	14:04
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						1,1,1-TRICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						1,1,2,2-TETRACHLOROETHANE	.0032	mg/kg	J	Y	Y	P	J	15				CQ3MRS	11:55
						1,1,2-TRICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						1,1-DICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						1,1-DICHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						1,1-DICHLOROPROPENE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						1,2,3-TRICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	UJ	04B	05B			CQ3MRS	11:55
						1,2,3-TRICHLOROPROPANE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						1,2,4-TRICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	UJ	04B				CQ3MRS	11:55
						1,2,4-TRIMETHYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N	Y	U	R	04A	05A			CQ3MRS	11:55
						1,2-DIBROMOETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						1,2-DICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						1,2-DICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						1,2-DICHLOROPROPANE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						1,3,5-TRIMETHYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						1,3-DICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						1,3-DICHLOROPROPANE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						1,4-DICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						2,2-DICHLOROPROPANE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						2-BUTANONE	.023	mg/kg	U	N	Y	U	R	04A	05A			CQ3MRS	11:55
						2-CHLOROTOLUENE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						2-HEXANONE	.023	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						4-CHLOROTOLUENE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						4-METHYL-2-PENTANONE	.023	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						ACETONE	.42	mg/kg	B	Y	Y	P	J	04A	04B	05A		CQ3MRS	11:55
						BENZENE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						BROMOBENZENE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						BROMOCHLOROMETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						BROMODICHLOROMETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						BROMOFORM	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						BROMOMETHANE	.0021	mg/kg	J B	Y	Y	F	B	04B	05B	06A	15	CQ3MRS	11:55
						CARBON DISULFIDE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						CARBON TETRACHLORIDE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						CHLOROBENZENE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						CHLORODIBROMOMETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MRS	11:55
						CHLOROETHANE	.012	mg/kg	U	N	Y	U	U					CQ3[illegible]	11:55
						CHLOROFORM	.0058	mg/kg	U	N	Y	U	U					CQ3[illegible]	[illegible]55

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0004	SW8260	SW5030	N 0 1	CHLOROMETHANE	.012	mg/kg	U	N Y U	U					CQ3MRS	11:55
				CIS-1,2-DICHLOROETHENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				CIS-1,3-DICHLOROPROPENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				DIBROMOMETHANE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N Y U	UJ	05B				CQ3MRS	11:55
				ETHYLBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				HEXACHLOROBUTADIENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				ISOPROPYLBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				M-XYLENE & P-XYLENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				METHYLENE CHLORIDE	.0027	mg/kg	J B	Y Y F	B	06A	06C	15		CQ3MRS	11:55
				N-BUTYLBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				N-PROPYLBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				NAPHTHALENE	.0058	mg/kg	U	N Y U	UJ	04B	05B			CQ3MRS	11:55
				O-XYLENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				P-ISOPROPYLTOLUENE	.048	mg/kg		Y Y P						CQ3MRS	11:55
				SEC-BUTYLBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				STYRENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				TERT-BUTYLBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				TETRACHLOROETHENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				TOLUENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				TRANS-1,2-DICHLOROETHENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				TRANS-1,3-DICHLOROPROPENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				TRICHLOROETHENE	.0058	mg/kg	U	N Y U	U					CQ3MRS	11:55
				TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N Y U	U					CQ3MRS	11:55
				VINYL CHLORIDE	.012	mg/kg	U	N Y U	U					CQ3MRS	11:55
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				1,2-DICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				1,3-DICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				1,4-DICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				2,2'-OXYBIS(1-CHLOROPROPANE)	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				2,4,5-TRICHLOROPHENOL	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				2,4,6-TRICHLOROPHENOL	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				2,4-DICHLOROPHENOL	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				2,4-DIMETHYLPHENOL	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				2,4-DINITROPHENOL	1.9	mg/kg	U	N Y U	UJ	05B				CQ3MRS	18:31
				2,4-DINITROTOLUENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				2,6-DINITROTOLUENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				2-CHLORONAPHTHALENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				2-CHLOROPHENOL	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				2-METHYLNAPHTHALENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				2-METHYLPHENOL	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				2-NITROANILINE	1.9	mg/kg	U	N Y U	U					CQ3MRS	18:31
				2-NITROPHENOL	.38	mg/kg	U	N Y U	U						

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0004	SW8270	SW3550	N 0 1	3,3'-DICHLOROBENZIDINE	1.9	mg/kg	U	N Y U	U					CQ3MRS	18:31
				3-NITROANILINE	1.9	mg/kg	U	N Y U	U					CQ3MRS	18:31
				4,6-DINITRO-2-METHYLPHENOL	1.9	mg/kg	U	N Y U	UJ	05B				CQ3MRS	18:31
				4-BROMOPHENYL PHENYL ETHER	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				4-CHLORO-3-METHYLPHENOL	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				4-CHLOROANILINE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				4-CHLOROPHENYL PHENYL ETHER	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				4-METHYLPHENOL	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				4-NITROANILINE	1.9	mg/kg	U	N Y U	U					CQ3MRS	18:31
				4-NITROPHENOL	1.9	mg/kg	U	N Y U	U					CQ3MRS	18:31
				ACENAPHTHENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				ACENAPHTHYLENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				ANTHRACENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				BENZ(A)ANTHRACENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				BENZO(A)PYRENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				BENZO(B)FLUORANTHENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				BENZO(GHI)PERYLENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				BENZO(K)FLUORANTHENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				BIS(2-CHLOROETHOXY)METHANE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				BIS(2-CHLOROETHYL) ETHER	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				BIS(2-ETHYLHEXYL) PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				BUTYL BENZYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				CARBAZOLE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				CHRYSENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				DI-N-BUTYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				DI-N-OCTYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				DIBENZ(A,H)ANTHRACENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				DIBENZOFURAN	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				DIETHYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				DIMETHYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				FLUORANTHENE	.041	mg/kg	J	Y Y P	J	15				CQ3MRS	18:31
				FLUORENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				HEXACHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				HEXACHLOROBUTADIENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				HEXACHLOROCYCLOPENTADIENE	1.9	mg/kg	U	N Y U	U					CQ3MRS	18:31
				HEXACHLOROETHANE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				INDENO(1,2,3-CD)PYRENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				ISOPHORONE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				N-NITROSODI-N-PROPYLAMINE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				N-NITROSODIPHENYLAMINE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				NAPHTHALENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				NITROBENZENE	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				PENTACHLOROPHENOL	.38	mg/kg	U	N Y U	U					CQ3MRS	18:31
				PHENANTHRENE	.38	mg/kg	U	N Y U	U					CQ3	18:31

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0004	SW8270	SW3550	N	0	1	PHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MRS	18:31
						PYRENE	.38	mg/kg	U	N	Y	U	UJ	08A				CQ3MRS	18:31
KE0005	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQ3MVS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	12800	mg/kg		Y	Y	P						CQ3MVS	23:15
						ANTIMONY	6.8	mg/kg	U	N	Y	U	UJ	08A				CQ3MVS	23:15
						ARSENIC	4.3	mg/kg		Y	Y	P						CQ3MVS	23:15
						BARIUM	48.2	mg/kg		Y	Y	P						CQ3MVS	23:15
						BERYLLIUM	0.42	mg/kg	B	Y	Y	P	J	13	15			CQ3MVS	23:15
						CADMIUM	0.57	mg/kg	U	N	Y	U	U					CQ3MVS	23:15
						CALCIUM	6790	mg/kg		Y	Y	P						CQ3MVS	23:15
						CHROMIUM	17.4	mg/kg		Y	Y	P	J	08A	08B			CQ3MVS	23:15
						COBALT	2.2	mg/kg	B	Y	Y	P	J	15				CQ3MVS	23:15
						COPPER	9.1	mg/kg		Y	Y	P						CQ3MVS	23:15
						IRON	18400	mg/kg		Y	Y	P						CQ3MVS	23:15
						LEAD	7.9	mg/kg		Y	Y	P	J	08A				CQ3MVS	23:15
						MAGNESIUM	984	mg/kg		Y	Y	P						CQ3MVS	23:15
						MANGANESE	57.8	mg/kg		Y	Y	P						CQ3MVS	23:15
						NICKEL	4.7	mg/kg		Y	Y	P						CQ3MVS	23:15
						POTASSIUM	496	mg/kg	B	Y	Y	P	J	15				CQ3MVS	23:15
						SELENIUM	0.94	mg/kg		Y	Y	P						CQ3MVS	23:15
						SILVER	1.1	mg/kg	U	N	Y	U	U					CQ3MVS	23:15
						SODIUM	97.9	mg/kg	B	Y	Y	F	B	06A	06B	06C	15	CQ3MVS	23:15
						THALLIUM	1.1	mg/kg	U	N	Y	U	U					CQ3MVS	23:15
						VANADIUM	29.7	mg/kg		Y	Y	P	J	08A				CQ3MVS	23:15
	SW6010	SW3050	N	1	1	ZINC	19.6	mg/kg		Y	Y	P						CQ3MVS	14:32
	SW7471	TOTAL	N	0	1	MERCURY	0.053	mg/kg		Y	Y	P	J	08A				CQ3MVS	14:06
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
						1,1,1-TRICHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
						1,1,2,2-TETRACHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
						1,1,2-TRICHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
						1,1-DICHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
						1,1-DICHLOROETHENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
						1,1-DICHLOROPROPENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
						1,2,3-TRICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	UJ	04B	05B			CQ3MVS	12:20
						1,2,3-TRICHLOROPROPANE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
						1,2,4-TRICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	UJ	04B				CQ3MVS	12:20
						1,2,4-TRIMETHYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
						1,2-DIBROMO-3-CHLOROPROPANE	.011	mg/kg	U	N	Y	U	R	04A	05A			CQ3MVS	12:20
						1,2-DIBROMOETHANE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
						1,2-DICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
						1,2-DICHLOROETHANE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
						1,2-DICHLOROPROPANE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
						1,3,5-TRIMETHYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF			VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0005	SW8260	SW5030	N 0 1	1,3-DICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				1,3-DICHLOROPROPANE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				1,4-DICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				2,2-DICHLOROPROPANE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				2-BUTANONE	.023	mg/kg	U	N	Y	U	R	04A	05A			CQ3MVS	12:20
				2-CHLOROTOLUENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				2-HEXANONE	.023	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				4-CHLOROTOLUENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				4-METHYL-2-PENTANONE	.023	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				ACETONE	.012	mg/kg	J B	Y	Y	F	B	04	05A	06A	15	CQ3MVS	12:20
				BENZENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				BROMOBENZENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				BROMOCHLOROMETHANE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				BROMODICHLOROMETHANE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				BROMOFORM	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				BROMOMETHANE	.0016	mg/kg	J B	Y	Y	F	B	04B	05B	06A	15	CQ3MVS	12:20
				CARBON DISULFIDE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				CARBON TETRACHLORIDE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				CHLOROBENZENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				CHLORODIBROMOMETHANE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				CHLOROETHANE	.011	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				CHLOROFORM	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				CHLOROMETHANE	.011	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				CIS-1,2-DICHLOROETHENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				CIS-1,3-DICHLOROPROPENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				DIBROMOMETHANE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				DICHLORODIFLUOROMETHANE	.011	mg/kg	U	N	Y	U	UJ	05B				CQ3MVS	12:20
				ETHYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				HEXACHLOROBUTADIENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				ISOPROPYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				M-XYLENE & P-XYLENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				METHYLENE CHLORIDE	.0019	mg/kg	J B	Y	Y	F	B	06A	06C	15		CQ3MVS	12:20
				N-BUTYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				N-PROPYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				NAPHTHALENE	.0057	mg/kg	U	N	Y	U	UJ	04B	05B			CQ3MVS	12:20
				O-XYLENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				P-ISOPROPYLTOLUENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				SEC-BUTYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				STYRENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				TERT-BUTYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				TETRACHLOROETHENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
				TOLUENE	.0044	mg/kg	J	Y	Y	P	J	15				CQ3MVS	12:20
				TRANS-1,2-DICHLOROETHENE	.0057	mg/kg	U	N	Y	U	U					CQ3M[illegible]	12:20
				TRANS-1,3-DICHLOROPROPENE	.0057	mg/kg	U	N	Y	U	U					CQ3[illegible]	[illegible]20

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0005	SW8260	SW5030	N	0	1	TRICHLOROETHENE	.0057	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
						TRICHLOROFLUOROMETHANE	.011	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
						VINYL CHLORIDE	.011	mg/kg	U	N	Y	U	U					CQ3MVS	12:20
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						1,2-DICHLOROBENZENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						1,3-DICHLOROBENZENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						1,4-DICHLOROBENZENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						2,2'-OXYBIS(1-CHLOROPROPANE)	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						2,4,5-TRICHLOROPHENOL	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						2,4,6-TRICHLOROPHENOL	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						2,4-DICHLOROPHENOL	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						2,4-DIMETHYLPHENOL	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						2,4-DINITROPHENOL	1.8	mg/kg	U	N	Y	U	UJ	05B				CQ3MVS	19:08
						2,4-DINITROTOLUENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						2,6-DINITROTOLUENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						2-CHLORONAPHTHALENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						2-CHLOROPHENOL	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						2-METHYLNAPHTHALENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						2-METHYLPHENOL	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						2-NITROANILINE	1.8	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						2-NITROPHENOL	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						3,3'-DICHLOROBENZIDINE	1.8	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						3-NITROANILINE	1.8	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						4,6-DINITRO-2-METHYLPHENOL	1.8	mg/kg	U	N	Y	U	UJ	05B				CQ3MVS	19:08
						4-BROMOPHENYL PHENYL ETHER	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						4-CHLORO-3-METHYLPHENOL	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						4-CHLOROANILINE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						4-CHLOROPHENYL PHENYL ETHER	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						4-METHYLPHENOL	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						4-NITROANILINE	1.8	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						4-NITROPHENOL	1.8	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						ACENAPHTHENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						ACENAPHTHYLENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						ANTHRACENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						BENZ(A)ANTHRACENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						BENZO(A)PYRENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						BENZO(B)FLUORANTHENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						BENZO(GHI)PERYLENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						BENZO(K)FLUORANTHENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						BIS(2-CHLOROETHOXY)METHANE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						BIS(2-CHLOROETHYL) ETHER	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						BIS(2-ETHYLHEXYL) PHTHALATE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						BUTYL BENZYL PHTHALATE	.37	mg/kg	U	N	Y	U	U					CQ3	19:08

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0005	SW8270	SW3550	N	0	1	CARBAZOLE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						CHRYSENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						DI-N-BUTYL PHTHALATE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						DI-N-OCTYL PHTHALATE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						DIBENZ(A,H)ANTHRACENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						DIBENZOFURAN	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						DIETHYL PHTHALATE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						DIMETHYL PHTHALATE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						FLUORANTHENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						FLUORENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						HEXACHLOROBENZENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						HEXACHLOROBUTADIENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						HEXACHLOROCYCLOPENTADIENE	1.8	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						HEXACHLOROETHANE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						INDENO(1,2,3-CD)PYRENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						ISOPHORONE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						N-NITROSODI-N-PROPYLAMINE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						N-NITROSODIPHENYLAMINE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						NAPHTHALENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						NITROBENZENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						PENTACHLOROPHENOL	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						PHENANTHRENE	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						PHENOL	.37	mg/kg	U	N	Y	U	U					CQ3MVS	19:08
						PYRENE	.37	mg/kg	U	N	Y	U	UJ	08A				CQ3MVS	19:08
KE0006	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQ3MWS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	7740	mg/kg		Y	Y	P						CQ3MWS	23:20
						ANTIMONY	6.9	mg/kg	U	N	Y	U	UJ	08A				CQ3MWS	23:20
						ARSENIC	3.0	mg/kg		Y	Y	P						CQ3MWS	23:20
						BARIUM	14.6	mg/kg	B	Y	Y	P	J	15				CQ3MWS	23:20
						BERYLLIUM	0.19	mg/kg	B	Y	Y	P	J	13	15			CQ3MWS	23:20
						CADMIUM	0.58	mg/kg	U	N	Y	U	U					CQ3MWS	23:20
						CALCIUM	1070	mg/kg		Y	Y	P						CQ3MWS	23:20
						CHROMIUM	11.4	mg/kg		Y	Y	P	J	08A	08B			CQ3MWS	23:20
						COBALT	0.71	mg/kg	B	Y	Y	P	J	15				CQ3MWS	23:20
						COPPER	4.7	mg/kg		Y	Y	P						CQ3MWS	23:20
						IRON	14800	mg/kg		Y	Y	P						CQ3MWS	23:20
						LEAD	5.5	mg/kg		Y	Y	P	J	08A				CQ3MWS	23:20
						MAGNESIUM	259	mg/kg	B	Y	Y	P	J	15				CQ3MWS	23:20
						MANGANESE	12.5	mg/kg		Y	Y	P	J	17				CQ3MWS	23:20
						NICKEL	1.8	mg/kg	B	Y	Y	P	J	15				CQ3MWS	23:20
						POTASSIUM	229	mg/kg	B	Y	Y	P	J	15				CQ3[illegible]	23:20
						SELENIUM	0.78	mg/kg		Y	Y	P						CQ3MWS	[illegible]:20
						SILVER	1.2	mg/kg	U	N	Y	U	U					CQ3[illegible]	23:20

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0006	SW6010	SW3050	N 0 1	SODIUM	69.4	mg/kg	B	Y Y F	B	06A	06B	06C	15	CQ3MWS	23:20
				THALLIUM	1.2	mg/kg	U	N Y U	U					CQ3MWS	23:20
				VANADIUM	21.2	mg/kg		Y Y P	J	08A				CQ3MWS	23:20
	SW6010	SW3050	N 1 1	ZINC	8.3	mg/kg		Y Y P						CQ3MWS	14:37
	SW7471	TOTAL	N 0 1	MERCURY	0.042	mg/kg		Y Y P	J	08A				CQ3MWS	14:09
	SW8260	SW5030	N 0 1	1,1,1,2-TETRACHLOROETHANE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,1,1-TRICHLOROETHANE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,1,2,2-TETRACHLOROETHANE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,1,2-TRICHLOROETHANE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,1-DICHLOROETHANE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,1-DICHLOROETHENE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,1-DICHLOROPROPENE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,2,3-TRICHLOROBENZENE	.0058	mg/kg	U	N Y U	UJ	04B	05B			CQ3MWS	12:45
				1,2,3-TRICHLOROPROPANE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,2,4-TRICHLOROBENZENE	.0058	mg/kg	U	N Y U	UJ	04B				CQ3MWS	12:45
				1,2,4-TRIMETHYLBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N Y U	R	04A	05A			CQ3MWS	12:45
				1,2-DIBROMOETHANE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,2-DICHLOROBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,2-DICHLOROETHANE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,2-DICHLOROPROPANE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,3,5-TRIMETHYLBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,3-DICHLOROBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,3-DICHLOROPROPANE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				1,4-DICHLOROBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				2,2-DICHLOROPROPANE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				2-BUTANONE	.023	mg/kg	U	N Y U	R	04A	05A			CQ3MWS	12:45
				2-CHLOROTOLUENE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				2-HEXANONE	.023	mg/kg	U	N Y U	U					CQ3MWS	12:45
				4-CHLOROTOLUENE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				4-METHYL-2-PENTANONE	.023	mg/kg	U	N Y U	U					CQ3MWS	12:45
				ACETONE	.0091	mg/kg	J B	Y Y F	B	04	05A	06A	17	CQ3MWS	12:45
				BENZENE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				BROMOBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				BROMOCHLOROMETHANE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				BROMODICHLOROMETHANE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				BROMOFORM	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				BROMOMETHANE	.0018	mg/kg	J B	Y Y F	B	04B	05B	06A	17	CQ3MWS	12:45
				CARBON DISULFIDE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				CARBON TETRACHLORIDE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				CHLOROBENZENE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				CHLORODIBROMOMETHANE	.0058	mg/kg	U	N Y U	U					CQ3MWS	12:45
				CHLOROETHANE	.012	mg/kg	U	N Y U	U					CQ3MWS	12:45

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0006	SW8260	SW5030	N	0	1	CHLOROFORM	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						CHLOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						CIS-1,2-DICHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						CIS-1,3-DICHLOROPROPENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						DIBROMOMETHANE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N	Y	U	UJ	05B				CQ3MWS	12:45
						ETHYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						HEXACHLOROBUTADIENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						ISOPROPYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						M-XYLENE & P-XYLENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						METHYLENE CHLORIDE	.0021	mg/kg	J B	Y	Y	F	B	06A	06C	15	17	CQ3MWS	12:45
						N-BUTYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						N-PROPYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						NAPHTHALENE	.0058	mg/kg	U	N	Y	U	UJ	04B	05B			CQ3MWS	12:45
						O-XYLENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						P-ISOPROPYLTOLUENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						SEC-BUTYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						STYRENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						TERT-BUTYLBENZENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						TETRACHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						TOLUENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						TRANS-1,2-DICHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						TRANS-1,3-DICHLOROPROPENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						TRICHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
						VINYL CHLORIDE	.012	mg/kg	U	N	Y	U	U					CQ3MWS	12:45
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						1,2-DICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						1,3-DICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						1,4-DICHLOROBENZENE	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						2,2'-OXYBIS(1-CHLOROPROPANE)	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						2,4,5-TRICHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						2,4,6-TRICHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						2,4-DICHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						2,4-DIMETHYLPHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						2,4-DINITROPHENOL	1.8	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						2,4-DINITROTOLUENE	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						2,6-DINITROTOLUENE	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						2-CHLORONAPHTHALENE	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						2-CHLOROPHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						2-METHYLNAPHTHALENE	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						2-METHYLPHENOL	.38	mg/kg	U	N	Y	U	U					CQ3[illegible]	17:51
						2-NITROANILINE	1.8	mg/kg	U	N	Y	U	U					CQ3M[illegible]	[illegible]

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0006	SW8270	SW3550	N 0 1	2-NITROPHENOL	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				3,3'-DICHLOROBENZIDINE	1.8	mg/kg	U	N Y U	U					CQ3MWS	17:51
				3-NITROANILINE	1.8	mg/kg	U	N Y U	UJ	05B				CQ3MWS	17:51
				4,6-DINITRO-2-METHYLPHENOL	1.8	mg/kg	U	N Y U	U					CQ3MWS	17:51
				4-BROMOPHENYL PHENYL ETHER	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				4-CHLORO-3-METHYLPHENOL	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				4-CHLOROANILINE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				4-CHLOROPHENYL PHENYL ETHER	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				4-METHYLPHENOL	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				4-NITROANILINE	1.8	mg/kg	U	N Y U	UJ	05B				CQ3MWS	17:51
				4-NITROPHENOL	1.8	mg/kg	U	N Y U	U					CQ3MWS	17:51
				ACENAPHTHENE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				ACENAPHTHYLENE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				ANTHRACENE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				BENZ(A)ANTHRACENE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				BENZO(A)PYRENE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				BENZO(B)FLUORANTHENE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				BENZO(GHI)PERYLENE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				BENZO(K)FLUORANTHENE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				BIS(2-CHLOROETHOXY)METHANE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				BIS(2-CHLOROETHYL) ETHER	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				BIS(2-ETHYLHEXYL) PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				BUTYL BENZYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				CARBAZOLE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				CHRYSENE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				DI-N-BUTYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				DI-N-OCTYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				DIBENZ(A,H)ANTHRACENE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				DIBENZOFURAN	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				DIETHYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				DIMETHYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				FLUORANTHENE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				FLUORENE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				HEXACHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				HEXACHLOROBUTADIENE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				HEXACHLOROCYCLOPENTADIENE	1.8	mg/kg	U	N Y U	U					CQ3MWS	17:51
				HEXACHLOROETHANE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				INDENO(1,2,3-CD)PYRENE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				ISOPHORONE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				N-NITROSODI-N-PROPYLAMINE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				N-NITROSODIPHENYLAMINE	.38	mg/kg	U	N Y U	U					CQ3MWS	17:51
				NAPHTHALENE	.38	mg/kg	U	N Y U	U					CQ3M[illegible]	17:51
				NITROBENZENE	.38	mg/kg	U	N Y U	U						
				PENTACHLOROPHENOL	.38	mg/kg	U	N Y U	U					CQ3MWS	[illegible]

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0006	SW8270	SW3550	N	0	1	PHENANTHRENE	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						PHENOL	.38	mg/kg	U	N	Y	U	U					CQ3MWS	17:51
						PYRENE	.38	mg/kg	U	N	Y	U	UJ	08A				CQ3MWS	17:51
KE0007	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y							CQ3MXS	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	8440	mg/kg		Y	Y							CQ3MXS	23:25
						ANTIMONY	6.9	mg/kg	U	N	Y		UJ	08A				CQ3MXS	23:25
						ARSENIC	2.8	mg/kg		Y	Y							CQ3MXS	23:25
						BARIUM	12.5	mg/kg	B	Y	Y		J	15				CQ3MXS	23:25
						BERYLLIUM	0.16	mg/kg	B	Y	Y		J	13	15			CQ3MXS	23:25
						CADMIUM	0.58	mg/kg	U	N	Y		U					CQ3MXS	23:25
						CALCIUM	747	mg/kg		Y	Y							CQ3MXS	23:25
						CHROMIUM	12.1	mg/kg		Y	Y		J	08A	08B			CQ3MXS	23:25
						COBALT	0.63	mg/kg	B	Y	Y		J	15				CQ3MXS	23:25
						COPPER	5.0	mg/kg		Y	Y							CQ3MXS	23:25
						IRON	22700	mg/kg		Y	Y							CQ3MXS	23:25
						LEAD	4.9	mg/kg		Y	Y		J	08A				CQ3MXS	23:25
						MAGNESIUM	197	mg/kg	B	Y	Y		J	15				CQ3MXS	23:25
						MANGANESE	5.2	mg/kg		Y	Y		J	17				CQ3MXS	23:25
						NICKEL	1.3	mg/kg	B	Y	Y		J	15				CQ3MXS	23:25
						POTASSIUM	187	mg/kg	B	Y	Y		J	15				CQ3MXS	23:25
						SELENIUM	1.1	mg/kg		Y	Y							CQ3MXS	23:25
						SILVER	1.2	mg/kg	U	N	Y		U					CQ3MXS	23:25
						SODIUM	55.8	mg/kg	B	Y	Y		B	06A	06B	06C	15	CQ3MXS	23:25
						THALLIUM	0.48	mg/kg	B	Y	Y		B	06C	15			CQ3MXS	23:25
						VANADIUM	22.6	mg/kg		Y	Y		J	08A				CQ3MXS	23:25
	SW6010	SW3050	N	1	1	ZINC	11.5	mg/kg		Y	Y							CQ3MXS	14:42
	SW7471	TOTAL	N	0	1	MERCURY	0.042	mg/kg		Y	Y		J	08A				CQ3MXS	14:16
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0091	mg/kg	U	N	Y		U					CQ3MXS	12:15
						1,1,1-TRICHLOROETHANE	.0091	mg/kg	U	N	Y		U					CQ3MXS	12:15
						1,1,2,2-TETRACHLOROETHANE	.0091	mg/kg	U	N	Y		U					CQ3MXS	12:15
						1,1,2-TRICHLOROETHANE	.0091	mg/kg	U	N	Y		U					CQ3MXS	12:15
						1,1-DICHLOROETHANE	.0091	mg/kg	U	N	Y		U					CQ3MXS	12:15
						1,1-DICHLOROETHENE	.0091	mg/kg	U	N	Y		U					CQ3MXS	12:15
						1,1-DICHLOROPROPENE	.0091	mg/kg	U	N	Y		U					CQ3MXS	12:15
						1,2,3-TRICHLOROBENZENE	.0091	mg/kg	U	N	Y		UJ	04B				CQ3MXS	12:15
						1,2,3-TRICHLOROPROPANE	.0091	mg/kg	U	N	Y		U					CQ3MXS	12:15
						1,2,4-TRICHLOROBENZENE	.0091	mg/kg	U	N	Y		UJ	04B				CQ3MXS	12:15
						1,2,4-TRIMETHYLBENZENE	.0091	mg/kg	U	N	Y		U					CQ3MXS	12:15
						1,2-DIBROMO-3-CHLOROPROPANE	.018	mg/kg	U	N	Y		R	04A	05A			CQ3MXS	12:15
						1,2-DIBROMOETHANE	.0091	mg/kg	U	N	Y		U					CQ3MXS	12:15
						1,2-DICHLOROBENZENE	.0091	mg/kg	U	N	Y		U					CQ3MXS	12:15
						1,2-DICHLOROETHANE	.0091	mg/kg	U	N	Y		U					CQ3MXS	12:15
						1,2-DICHLOROPROPANE	.0091	mg/kg	U	N	Y		U					CQ3	12:15

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0007	SW8260	SW5030	N 0 1	1,3,5-TRIMETHYLBENZENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				1,3-DICHLOROBENZENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				1,3-DICHLOROPROPANE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				1,4-DICHLOROBENZENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				2,2-DICHLOROPROPANE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				2-BUTANONE	.036	mg/kg	U	N Y	R	04A	05A			CQ3MXS	12:15
				2-CHLOROTOLUENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				2-HEXANONE	.036	mg/kg	U	N Y	U					CQ3MXS	12:15
				4-CHLOROTOLUENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				4-METHYL-2-PENTANONE	.036	mg/kg	U	N Y	U					CQ3MXS	12:15
				ACETONE	.017	mg/kg	J B	Y Y	B	04	05A	06A	17	CQ3MXS	12:15
				BENZENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				BROMOBENZENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				BROMOCHLOROMETHANE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				BROMODICHLOROMETHANE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				BROMOFORM	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				BROMOMETHANE	.0041	mg/kg	J B	Y Y	B	04B	05B	06A	17	CQ3MXS	12:15
				CARBON DISULFIDE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				CARBON TETRACHLORIDE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				CHLOROBENZENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				CHLORODIBROMOMETHANE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				CHLOROETHANE	.018	mg/kg	U	N Y	UJ	05B				CQ3MXS	12:15
				CHLOROFORM	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				CHLOROMETHANE	.018	mg/kg	U	N Y	U					CQ3MXS	12:15
				CIS-1,2-DICHLOROETHENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				CIS-1,3-DICHLOROPROPENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				DIBROMOMETHANE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				DICHLORODIFLUOROMETHANE	.018	mg/kg	U	N Y	UJ	05B				CQ3MXS	12:15
				ETHYLBENZENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				HEXACHLOROBUTADIENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				ISOPROPYLBENZENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				M-XYLENE & P-XYLENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				METHYLENE CHLORIDE	.0059	mg/kg	J B	Y Y	B	06A	06C	15	17	CQ3MXS	12:15
				N-BUTYLBENZENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				N-PROPYLBENZENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				NAPHTHALENE	.0091	mg/kg	U	N Y	UJ	04B				CQ3MXS	12:15
				O-XYLENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				P-ISOPROPYLTOLUENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				SEC-BUTYLBENZENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				STYRENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				TERT-BUTYLBENZENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				TETRACHLOROETHENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15
				TOLUENE	.0031	mg/kg	J	Y Y	J	15				CQ3MXS	12:15
				TRANS-1,2-DICHLOROETHENE	.0091	mg/kg	U	N Y	U					CQ3MXS	12:15

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0007	SW8260	SW5030	N	0	1	TRANS-1,3-DICHLOROPROPENE	.0091	mg/kg	U	N	Y		U					CQ3MXS	12:15
						TRICHLOROETHENE	.0091	mg/kg	U	N	Y		U					CQ3MXS	12:15
						TRICHLOROFLUOROMETHANE	.0069	mg/kg	J	Y	Y		J	15				CQ3MXS	12:15
						VINYL CHLORIDE	.018	mg/kg	U	N	Y		U					CQ3MXS	12:15
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						1,2-DICHLOROBENZENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						1,3-DICHLOROBENZENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						1,4-DICHLOROBENZENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						2,2'-OXYBIS(1-CHLOROPROPANE)	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						2,4,5-TRICHLOROPHENOL	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						2,4,6-TRICHLOROPHENOL	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						2,4-DICHLOROPHENOL	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						2,4-DIMETHYLPHENOL	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						2,4-DINITROPHENOL	1.8	mg/kg	U	N	Y		U					CQ3MXS	18:29
						2,4-DINITROTOLUENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						2,6-DINITROTOLUENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						2-CHLORONAPHTHALENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						2-CHLOROPHENOL	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						2-METHYLNAPHTHALENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						2-METHYLPHENOL	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						2-NITROANILINE	1.8	mg/kg	U	N	Y		U					CQ3MXS	18:29
						2-NITROPHENOL	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						3,3'-DICHLOROBENZIDINE	1.8	mg/kg	U	N	Y		U					CQ3MXS	18:29
						3-NITROANILINE	1.8	mg/kg	U	N	Y		UJ	05B				CQ3MXS	18:29
						4,6-DINITRO-2-METHYLPHENOL	1.8	mg/kg	U	N	Y		U					CQ3MXS	18:29
						4-BROMOPHENYL PHENYL ETHER	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						4-CHLORO-3-METHYLPHENOL	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						4-CHLOROANILINE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						4-CHLOROPHENYL PHENYL ETHER	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						4-METHYLPHENOL	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						4-NITROANILINE	1.8	mg/kg	U	N	Y		UJ	05B				CQ3MXS	18:29
						4-NITROPHENOL	1.8	mg/kg	U	N	Y		U					CQ3MXS	18:29
						ACENAPHTHENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						ACENAPHTHYLENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						ANTHRACENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						BENZ(A)ANTHRACENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						BENZO(A)PYRENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						BENZO(B)FLUORANTHENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						BENZO(GHI)PERYLENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						BENZO(K)FLUORANTHENE	.38	mg/kg	U	N	Y		U					CQ3MXS	18:29
						BIS(2-CHLOROETHOXY)METHANE	.38	mg/kg	U	N	Y		U					CQ[illegible]	[illegible]29
						BIS(2-CHLOROETHYL) ETHER	.38	mg/kg	U	N	Y		U					CQ[illegible]	18:29
						BIS(2-ETHYLHEXYL) PHTHALATE	.38	mg/kg	U	N	Y		U					CQ3[illegible]	18:29

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0007	SW8270	SW3550	N 0 1	BUTYL BENZYL PHTHALATE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				CARBAZOLE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				CHRYSENE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				DI-N-BUTYL PHTHALATE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				DI-N-OCTYL PHTHALATE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				DIBENZ(A,H)ANTHRACENE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				DIBENZOFURAN	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				DIETHYL PHTHALATE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				DIMETHYL PHTHALATE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				FLUORANTHENE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				FLUORENE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				HEXACHLOROBENZENE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				HEXACHLOROBUTADIENE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				HEXACHLOROCYCLOPENTADIENE	1.8	mg/kg	U	N Y	U					CQ3MXS	18:29
				HEXACHLOROETHANE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				INDENO(1,2,3-CD)PYRENE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				ISOPHORONE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				N-NITROSODI-N-PROPYLAMINE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				N-NITROSODIPHENYLAMINE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				NAPHTHALENE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				NITROBENZENE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				PENTACHLOROPHENOL	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				PHENANTHRENE	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				PHENOL	.38	mg/kg	U	N Y	U					CQ3MXS	18:29
				PYRENE	.38	mg/kg	U	N Y	UJ	08A				CQ3MXS	18:29
KE0009	D2216	NONE	N 0 1	PERCENT MOISTURE				Y Y P						CQ3N1S	00:00
	SW6010	SW3050	N 0 1	ALUMINUM	13800	mg/kg		Y Y P						CQ3N1S	23:31
				ANTIMONY	7.8	mg/kg	U	N Y U	UJ	08A				CQ3N1S	23:31
				ARSENIC	4.6	mg/kg		Y Y P						CQ3N1S	23:31
				BARIUM	88.7	mg/kg		Y Y P						CQ3N1S	23:31
				BERYLLIUM	1.5	mg/kg		Y Y P	J	13				CQ3N1S	23:31
				CADMIUM	0.65	mg/kg	U	N Y U	U					CQ3N1S	23:31
				CALCIUM	17700	mg/kg		Y Y P						CQ3N1S	23:31
				CHROMIUM	18.1	mg/kg		Y Y P	J	08A	08B			CQ3N1S	23:31
				COBALT	1.7	mg/kg	B	Y Y P	J	15				CQ3N1S	23:31
				COPPER	17.3	mg/kg		Y Y P						CQ3N1S	23:31
				IRON	25600	mg/kg		Y Y P						CQ3N1S	23:31
				LEAD	17.4	mg/kg		Y Y P	J	08A				CQ3N1S	23:31
				MAGNESIUM	2860	mg/kg		Y Y P						CQ3N1S	23:31
				MANGANESE	152	mg/kg		Y Y P						CQ3N1S	23:31
				NICKEL	4.5	mg/kg	B	Y Y P	J	15				CQ3N1S	23:31
				POTASSIUM	668	mg/kg		Y Y P						CQ3N1S	23:31
				SELENIUM	1.7	mg/kg		Y Y P						CQ3N1S	23:31

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0009	SW6010	SW3050	N	0	1	SILVER	1.3	mg/kg	U	N	Y	U	U					CQ3N1S	23:31
						SODIUM	142	mg/kg	B	Y	Y	F	B	06A	06B	15		CQ3N1S	23:31
						THALLIUM	1.3	mg/kg	U	N	Y	U	U					CQ3N1S	23:31
						VANADIUM	32.0	mg/kg		Y	Y	P	J	08A				CQ3N1S	23:31
	SW6010	SW3050	N	1	1	ZINC	20.5	mg/kg		Y	Y	P						CQ3N1S	14:46
	SW7471	TOTAL	N	0	1	MERCURY	0.046	mg/kg		Y	Y	P	J	08A				CQ3N1S	14:18
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,1,1-TRICHLOROETHANE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,1,2,2-TETRACHLOROETHANE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,1,2-TRICHLOROETHANE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,1-DICHLOROETHANE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,1-DICHLOROETHENE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,1-DICHLOROPROPENE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,2,3-TRICHLOROBENZENE	.0065	mg/kg	U	N	Y	U	UJ	04B	05B			CQ3N1S	13:51
						1,2,3-TRICHLOROPROPANE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,2,4-TRICHLOROBENZENE	.0065	mg/kg	U	N	Y	U	UJ	04B				CQ3N1S	13:51
						1,2,4-TRIMETHYLBENZENE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,2-DIBROMO-3-CHLOROPROPANE	.013	mg/kg	U	N	Y	U	R	04A	05A			CQ3N1S	13:51
						1,2-DIBROMOETHANE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,2-DICHLOROBENZENE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,2-DICHLOROETHANE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,2-DICHLOROPROPANE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,3,5-TRIMETHYLBENZENE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,3-DICHLOROBENZENE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,3-DICHLOROPROPANE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						1,4-DICHLOROBENZENE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						2,2-DICHLOROPROPANE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						2-BUTANONE	.026	mg/kg	U	N	Y	U	R	04A	05A			CQ3N1S	13:51
						2-CHLOROTOLUENE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						2-HEXANONE	.026	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						4-CHLOROTOLUENE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						4-METHYL-2-PENTANONE	.026	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						ACETONE	.062	mg/kg	B	Y	Y	F	B	04A	04B	05A	06A	CQ3N1S	13:51
						BENZENE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						BROMOBENZENE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						BROMOCHLOROMETHANE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						BROMODICHLOROMETHANE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						BROMOFORM	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						BROMOMETHANE	.0021	mg/kg	J B	Y	Y	F	B	04B	05B	06A	15	CQ3N1S	13:51
						CARBON DISULFIDE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						CARBON TETRACHLORIDE	.0065	mg/kg	U	N	Y	U	U					CQ[illegible]	13:51
						CHLOROBENZENE	.0065	mg/kg	U	N	Y	U	U					CQ3N1S	13:51
						CHLORODIBROMOMETHANE	.0065	mg/kg	U	N	Y	U	U					CQ3[illegible]	13:51

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0009	SW8260	SW5030	N 0 1	CHLOROETHANE	.013	mg/kg	U	N Y U	U					CQ3N1S	13:51
				CHLOROFORM	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				CHLOROMETHANE	.013	mg/kg	U	N Y U	U					CQ3N1S	13:51
				CIS-1,2-DICHLOROETHENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				CIS-1,3-DICHLOROPROPENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				DIBROMOMETHANE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				DICHLORODIFLUOROMETHANE	.013	mg/kg	U	N Y U	UJ	05B				CQ3N1S	13:51
				ETHYLBENZENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				HEXACHLOROBUTADIENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				ISOPROPYLBENZENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				M-XYLENE & P-XYLENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				METHYLENE CHLORIDE	.0031	mg/kg	J B	Y Y F	B	06A	06C	15		CQ3N1S	13:51
				N-BUTYLBENZENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				N-PROPYLBENZENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				NAPHTHALENE	.0065	mg/kg	U	N Y U	UJ	04B	05B			CQ3N1S	13:51
				O-XYLENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				P-ISOPROPYLTOLUENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				SEC-BUTYLBENZENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				STYRENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				TERT-BUTYLBENZENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				TETRACHLOROETHENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				TOLUENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				TRANS-1,2-DICHLOROETHENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				TRANS-1,3-DICHLOROPROPENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				TRICHLOROETHENE	.0065	mg/kg	U	N Y U	U					CQ3N1S	13:51
				TRICHLOROFLUOROMETHANE	.013	mg/kg	U	N Y U	U					CQ3N1S	13:51
				VINYL CHLORIDE	.013	mg/kg	U	N Y U	U					CQ3N1S	13:51
	SW8270	SW3550	N 0 5	1,2,4-TRICHLOROBENZENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				1,2-DICHLOROBENZENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				1,3-DICHLOROBENZENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				1,4-DICHLOROBENZENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				2,2'-OXYBIS(1-CHLOROPROPANE)	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				2,4,5-TRICHLOROPHENOL	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				2,4,6-TRICHLOROPHENOL	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				2,4-DICHLOROPHENOL	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				2,4-DIMETHYLPHENOL	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				2,4-DINITROPHENOL	10	mg/kg	U	N Y U	UJ	05B				CQ3N1S	19:09
				2,4-DINITROTOLUENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				2,6-DINITROTOLUENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				2-CHLORONAPHTHALENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				2-CHLOROPHENOL	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				2-METHYLNAPHTHALENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				2-METHYLPHENOL	2.1	mg/kg	U	N Y U	U					[illegible]	19:09

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0009	SW8270	SW3550	N 0 5	2-NITROANILINE	10	mg/kg	U	N Y U	U					CQ3N1S	19:09
				2-NITROPHENOL	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				3,3'-DICHLOROBENZIDINE	10	mg/kg	U	N Y U	U					CQ3N1S	19:09
				3-NITROANILINE	10	mg/kg	U	N Y U	U					CQ3N1S	19:09
				4,6-DINITRO-2-METHYLPHENOL	10	mg/kg	U	N Y U	U					CQ3N1S	19:09
				4-BROMOPHENYL PHENYL ETHER	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				4-CHLORO-3-METHYLPHENOL	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				4-CHLOROANILINE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				4-CHLOROPHENYL PHENYL ETHER	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				4-METHYLPHENOL	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				4-NITROANILINE	10	mg/kg	U	N Y U	U					CQ3N1S	19:09
				4-NITROPHENOL	10	mg/kg	U	N Y U	UJ	05B				CQ3N1S	19:09
				ACENAPHTHENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				ACENAPHTHYLENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				ANTHRACENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				BENZ(A)ANTHRACENE	.28	mg/kg	J B	Y Y P	J	15				CQ3N1S	19:09
				BENZO(A)PYRENE	.25	mg/kg		Y Y P	J	15				CQ3N1S	19:09
				BENZO(B)FLUORANTHENE	.32	mg/kg	J	Y Y P	J	15				CQ3N1S	19:09
				BENZO(GHI)PERYLENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				BENZO(K)FLUORANTHENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				BIS(2-CHLOROETHOXY)METHANE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				BIS(2-CHLOROETHYL) ETHER	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				BIS(2-ETHYLHEXYL) PHTHALATE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				BUTYL BENZYL PHTHALATE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				CARBAZOLE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				CHRYSENE	.3	mg/kg	J B	Y Y P	J	15				CQ3N1S	19:09
				DI-N-BUTYL PHTHALATE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				DI-N-OCTYL PHTHALATE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				DIBENZ(A,H)ANTHRACENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				DIBENZOFURAN	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				DIETHYL PHTHALATE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				DIMETHYL PHTHALATE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				FLUORANTHENE	.71	mg/kg	J	Y Y P	J	15				CQ3N1S	19:09
				FLUORENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				HEXACHLOROBENZENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				HEXACHLOROBUTADIENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				HEXACHLOROCYCLOPENTADIENE	10	mg/kg	U	N Y U	UJ	05B				CQ3N1S	19:09
				HEXACHLOROETHANE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				INDENO(1,2,3-CD)PYRENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				ISOPHORONE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				N-NITROSODI-N-PROPYLAMINE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				N-NITROSODIPHENYLAMINE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				NAPHTHALENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09
				NITROBENZENE	2.1	mg/kg	U	N Y U	U					CQ3N1S	19:09

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0009	SW8270	SW3550	N	0	5	PENTACHLOROPHENOL	2.1	mg/kg	U	N	Y	U	U					CQ3N1S	19:09
						PHENANTHRENE	.5	mg/kg	J	Y	Y	P	J	15				CQ3N1S	19:09
						PHENOL	2.1	mg/kg	U	N	Y	U	U					CQ3N1S	19:09
						PYRENE	.52	mg/kg	J	Y	Y	P	J	15	08A			CQ3N1S	19:09
KE0010	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQ3N2S	00:00
	SW6010	SW3050	N	0	1	ALUMINUM	12800	mg/kg		Y	Y	P						CQ3N2S	00:50
						ANTIMONY	7.1	mg/kg	U	N	Y	U	UJ	08A				CQ3N2S	00:50
						ARSENIC	5.0	mg/kg		Y	Y	P						CQ3N2S	00:50
						BARIUM	25.1	mg/kg		Y	Y	P						CQ3N2S	00:50
						BERYLLIUM	0.28	mg/kg	B	Y	Y	P	J	13	15			CQ3N2S	00:50
						CADMIUM	0.59	mg/kg	U	N	Y	U	U					CQ3N2S	00:50
						CALCIUM	1070	mg/kg		Y	Y	P						CQ3N2S	00:50
						CHROMIUM	16.4	mg/kg		Y	Y	P	J	08A	08B			CQ3N2S	00:50
						COBALT	1.8	mg/kg	B	Y	Y	P	J	15				CQ3N2S	00:50
						COPPER	7.5	mg/kg		Y	Y	P						CQ3N2S	00:50
						IRON	22400	mg/kg		Y	Y	P						CQ3N2S	00:50
						LEAD	9.2	mg/kg		Y	Y	P	J	08A				CQ3N2S	00:50
						MAGNESIUM	434	mg/kg	B	Y	Y	P	J	15				CQ3N2S	00:50
						MANGANESE	70.2	mg/kg		Y	Y	P						CQ3N2S	00:50
						NICKEL	2.9	mg/kg	B	Y	Y	P	J	15				CQ3N2S	00:50
						POTASSIUM	351	mg/kg	B	Y	Y	P	J	15				CQ3N2S	00:50
						SELENIUM	0.84	mg/kg		Y	Y	P						CQ3N2S	00:50
						SILVER	1.2	mg/kg	U	N	Y	U	U					CQ3N2S	00:50
						SODIUM	85.8	mg/kg	B	Y	Y	F	B	06A	06B	06C	15	CQ3N2S	00:50
						THALLIUM	1.2	mg/kg	U	N	Y	U	U					CQ3N2S	00:50
						VANADIUM	34.1	mg/kg		Y	Y	P	J	08A				CQ3N2S	00:50
						ZINC	21.4	mg/kg		Y	Y	P						CQ3N2S	14:51
	SW7471	TOTAL	N	0	1	MERCURY	0.076	mg/kg		Y	Y	P	J	08A				CQ3N2S	14:20
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ3N2S	14:16
						1,1,1-TRICHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ3N2S	14:16
						1,1,2,2-TETRACHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ3N2S	14:16
						1,1,2-TRICHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ3N2S	14:16
						1,1-DICHLOROETHANE	.0059	mg/kg	U	N	Y	U	U					CQ3N2S	14:16
						1,1-DICHLOROETHENE	.0059	mg/kg	U	N	Y	U	U					CQ3N2S	14:16
						1,1-DICHLOROPROPENE	.0059	mg/kg	U	N	Y	U	U					CQ3N2S	14:16
						1,2,3-TRICHLOROBENZENE	.0059	mg/kg	U	N	Y	U	UJ	04B	05B			CQ3N2S	14:16
						1,2,3-TRICHLOROPROPANE	.0059	mg/kg	U	N	Y	U	U					CQ3N2S	14:16
						1,2,4-TRICHLOROBENZENE	.0059	mg/kg	U	N	Y	U	UJ	04B				CQ3N2S	14:16
						1,2,4-TRIMETHYLBENZENE	.0059	mg/kg	U	N	Y	U	U					CQ3N2S	14:16
						1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N	Y	U	R	04A	05A			CQ3N2S	14:16
						1,2-DIBROMOETHANE	.0059	mg/kg	U	N	Y	U	U					CQ3N2S	14:16
						1,2-DICHLOROBENZENE	.0059	mg/kg	U	N	Y	U	U					CQ3N2S	14:16
						1,2-DICHLOROETHANE	.0059	mg/kg	U	N	Y	U	U						

Validation Qualifier Data Entry Verification

Fort McClellan

Run Date: September 27, 2000

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0010	SW8260	SW5030	N 0 1	1,2-DICHLOROPROPANE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				1,3,5-TRIMETHYLBENZENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				1,3-DICHLOROBENZENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				1,3-DICHLOROPROPANE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				1,4-DICHLOROBENZENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				2,2-DICHLOROPROPANE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				2-BUTANONE	.024	mg/kg	U	N Y U	R	04A	05A			CQ3N2S	14:16
				2-CHLOROTOLUENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				2-HEXANONE	.024	mg/kg	U	N Y U	U					CQ3N2S	14:16
				4-CHLOROTOLUENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				4-METHYL-2-PENTANONE	.024	mg/kg	U	N Y U	U					CQ3N2S	14:16
				ACETONE	.12	mg/kg	B	Y Y P	J	04A	04B	05A		CQ3N2S	14:16
				BENZENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				BROMOBENZENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				BROMOCHLOROMETHANE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				BROMODICHLOROMETHANE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				BROMOFORM	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				BROMOMETHANE	.0021	mg/kg	J B	Y Y F	B	04B	05B	06A	15	CQ3N2S	14:16
				CARBON DISULFIDE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				CARBON TETRACHLORIDE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				CHLOROBENZENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				CHLORODIBROMOMETHANE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				CHLOROETHANE	.012	mg/kg	U	N Y U	U					CQ3N2S	14:16
				CHLOROFORM	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				CHLOROMETHANE	.012	mg/kg	U	N Y U	U					CQ3N2S	14:16
				CIS-1,2-DICHLOROETHENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				CIS-1,3-DICHLOROPROPENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				DIBROMOMETHANE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N Y U	UJ	05B				CQ3N2S	14:16
				ETHYLBENZENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				HEXACHLOROBUTADIENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				ISOPROPYLBENZENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				M-XYLENE & P-XYLENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				METHYLENE CHLORIDE	.0029	mg/kg	J B	Y Y F	B	06A	06C	15		CQ3N2S	14:16
				N-BUTYLBENZENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				N-PROPYLBENZENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				NAPHTHALENE	.0059	mg/kg	U	N Y U	UJ	04B	05B			CQ3N2S	14:16
				O-XYLENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				P-ISOPROPYLTOLUENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				SEC-BUTYLBENZENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	14:16
				STYRENE	.0059	mg/kg	U	N Y U	U					CQ3N[illegible]	14:16
				TERT-BUTYLBENZENE	.0059	mg/kg	U	N Y U	U					CQ3N2S	[illegible]16
				TETRACHLOROETHENE	.0059	mg/kg	U	N Y U	U					CQ3N[illegible]	14:16
				TOLUENE	0059	mg/kg	U	N Y U	U					CQ3[illegible]	14:16

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1 2 3 4	Lab Sample:	Analysis Time:
KE0010	SW8260	SW5030	N 0 1	TRANS-1,2-DICHLOROETHENE	.0059	mg/kg	U	N Y U	U		CQ3N2S	14:16
				TRANS-1,3-DICHLOROPROPENE	.0059	mg/kg	U	N Y U	U		CQ3N2S	14:16
				TRICHLOROETHENE	.0059	mg/kg	U	N Y U	U		CQ3N2S	14:16
				TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N Y U	U		CQ3N2S	14:16
				VINYL CHLORIDE	.012	mg/kg	U	N Y U	U		CQ3N2S	14:16
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				1,2-DICHLOROBENZENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				1,3-DICHLOROBENZENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				1,4-DICHLOROBENZENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				2,2'-OXYBIS(1-CHLOROPROPANE)	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				2,4,5-TRICHLOROPHENOL	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				2,4,6-TRICHLOROPHENOL	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				2,4-DICHLOROPHENOL	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				2,4-DIMETHYLPHENOL	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				2,4-DINITROPHENOL	1.9	mg/kg	U	N Y U	U		CQ3N2S	08:40
				2,4-DINITROTOLUENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				2,6-DINITROTOLUENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				2-CHLORONAPHTHALENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				2-CHLOROPHENOL	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				2-METHYLNAPHTHALENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				2-METHYLPHENOL	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				2-NITROANILINE	1.9	mg/kg	U	N Y U	U		CQ3N2S	08:40
				2-NITROPHENOL	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				3,3'-DICHLOROBENZIDINE	1.9	mg/kg	U	N Y U	U		CQ3N2S	08:40
				3-NITROANILINE	1.9	mg/kg	U	N Y U	U		CQ3N2S	08:40
				4,6-DINITRO-2-METHYLPHENOL	1.9	mg/kg	U	N Y U	U		CQ3N2S	08:40
				4-BROMOPHENYL PHENYL ETHER	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				4-CHLORO-3-METHYLPHENOL	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				4-CHLOROANILINE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				4-CHLOROPHENYL PHENYL ETHER	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				4-METHYLPHENOL	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				4-NITROANILINE	1.9	mg/kg	U	N Y U	U		CQ3N2S	08:40
				4-NITROPHENOL	1.9	mg/kg	U	N Y U	U		CQ3N2S	08:40
				ACENAPHTHENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				ACENAPHTHYLENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				ANTHRACENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				BENZ(A)ANTHRACENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				BENZO(A)PYRENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				BENZO(B)FLUORANTHENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				BENZO(GHI)PERYLENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				BENZO(K)FLUORANTHENE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				BIS(2-CHLOROETHOXY)METHANE	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40
				BIS(2-CHLOROETHYL) ETHER	.39	mg/kg	U	N Y U	U		CQ3N2S	08:40

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE0010	SW8270	SW3550	N 0 1	BIS(2-ETHYLHEXYL) PHTHALATE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				BUTYL BENZYL PHTHALATE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				CARBAZOLE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				CHRYSENE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				DI-N-BUTYL PHTHALATE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				DI-N-OCTYL PHTHALATE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				DIBENZ(A,H)ANTHRACENE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				DIBENZOFURAN	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				DIETHYL PHTHALATE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				DIMETHYL PHTHALATE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				FLUORANTHENE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				FLUORENE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				HEXACHLOROBENZENE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				HEXACHLOROBUTADIENE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				HEXACHLOROCYCLOPENTADIENE	1.9	mg/kg	U	N Y U	U					CQ3N2S	08:40
				HEXACHLOROETHANE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				INDENO(1,2,3-CD)PYRENE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				ISOPHORONE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				N-NITROSODI-N-PROPYLAMINE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				N-NITROSODIPHENYLAMINE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				NAPHTHALENE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				NITROBENZENE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				PENTACHLOROPHENOL	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				PHENANTHRENE	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				PHENOL	.39	mg/kg	U	N Y U	U					CQ3N2S	08:40
				PYRENE	.39	mg/kg	U	N Y U	UJ	08A				CQ3N2S	08:40
KE3001	SW6010	SW3005	N 0 1	ALUMINUM	.0421	mg/L	B	Y Y P	J	15	17			CR2C2W	16:33
				ANTIMONY	.06	mg/L	U	N Y U	U					CR2C2W	16:33
				BARIUM	.0394	mg/L	B	Y Y P	J	15				CR2C2W	16:33
				BERYLLIUM	.005	mg/L	U	N Y U	U					CR2C2W	16:33
				CADMIUM	.005	mg/L	U	N Y U	U					CR2C2W	16:33
				CALCIUM	39.3	mg/L		Y Y P						CR2C2W	16:33
				CHROMIUM	.01	mg/L	U	N Y U	U					CR2C2W	16:33
				COBALT	.05	mg/L	U	N Y U	U					CR2C2W	16:33
				COPPER	.025	mg/L	U	N Y U	U					CR2C2W	16:33
				IRON	2.34	mg/L		Y Y P						CR2C2W	16:33
				MAGNESIUM	14.2	mg/L		Y Y P						CR2C2W	16:33
				MANGANESE	.125	mg/L		Y Y P	J	17				CR2C2W	16:33
				NICKEL	.04	mg/L	U	N Y U	U					CR2C2W	16:33
				POTASSIUM	11.6	mg/L		Y Y P						CR2C2W	16:33
				SILVER	.01	mg/L	U	N Y U	U					CR2C2W	16:33
				SODIUM	14.7	mg/L		Y Y P						CR2C2W	16:33
				VANADIUM	.05	mg/L	U	N Y U	U					CR2C2W	16:33

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE3001	SW6010	SW3005	N 0 1	ZINC	.02	mg/L	U	N Y U	U					CR2C2W	16:33
	SW6010	TOTREC	N 0 1	ARSENIC	.0114	mg/L		Y Y P						CR2C2W	16:33
				LEAD	.003	mg/L	U	N Y U	U					CR2C2W	16:33
				SELENIUM	.005	mg/L	U	N Y U	U					CR2C2W	16:33
				THALLIUM	.01	mg/L	U	N Y U	U					CR2C2W	16:33
	SW7470	TOTAL	N 0 1	MERCURY	.0002	mg/L	U	N Y U	U					CR2C2W	18:30
	SW8260	SW5030	N 0 5	1,1,1,2-TETRACHLOROETHANE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,1,1-TRICHLOROETHANE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,1,2,2-TETRACHLOROETHANE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,1,2-TRICHLOROETHANE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,1-DICHLOROETHANE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,1-DICHLOROETHENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,1-DICHLOROPROPENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,2,3-TRICHLOROBENZENE	.005	mg/L	U	N Y U	UJ	05B				CR2C2W	16:21
				1,2,3-TRICHLOROPROPANE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,2,4-TRICHLOROBENZENE	.005	mg/L	U	N Y U	UJ	05B				CR2C2W	16:21
				1,2,4-TRIMETHYLBENZENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,2-DIBROMO-3-CHLOROPROPANE	.01	mg/L	U	N Y U	R	04A	05A			CR2C2W	16:21
				1,2-DIBROMOETHANE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,2-DICHLOROBENZENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,2-DICHLOROETHANE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,2-DICHLOROPROPANE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,3,5-TRIMETHYLBENZENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,3-DICHLOROBENZENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,3-DICHLOROPROPANE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				1,4-DICHLOROBENZENE	.0049	mg/L	J	Y Y P	J	15	17			CR2C2W	16:21
				2,2-DICHLOROPROPANE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				2-BUTANONE	.025	mg/L	U	N Y U	R	04A	05A			CR2C2W	16:21
				2-CHLOROTOLUENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				2-HEXANONE	.025	mg/L	U	N Y U	U					CR2C2W	16:21
				4-CHLOROTOLUENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				4-METHYL-2-PENTANONE	.025	mg/L	U	N Y U	U					CR2C2W	16:21
				ACETONE	.05	mg/L	U	N Y U	R	04A	05A			CR2C2W	16:21
				BENZENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				BROMOBENZENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				BROMOCHLOROMETHANE	.005	mg/L	U	N Y U	R	04A	05A			CR2C2W	16:21
				BROMODICHLOROMETHANE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				BROMOFORM	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				BROMOMETHANE	.01	mg/L	U	N Y U	R	04A	05A	05B		CR2C2W	16:21
				CARBON DISULFIDE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				CARBON TETRACHLORIDE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				CHLOROBENZENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				CHLORODIBROMOMETHANE	.005	mg/L	U	N Y U	U					CR2C2W	16:21

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE3001	SW8260	SW5030	N 0 5	CHLOROETHANE	.01	mg/L	U	N Y U	U					CR2C2W	16:21
				CHLOROFORM	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				CHLOROMETHANE	.01	mg/L	U	N Y U	U					CR2C2W	16:21
				CIS-1,2-DICHLOROETHENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				CIS-1,3-DICHLOROPROPENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				DIBROMOMETHANE	.005	mg/L	U	N Y U	R	04A	05A			CR2C2W	16:21
				DICHLORODIFLUOROMETHANE	.01	mg/L	U	N Y U	U					CR2C2W	16:21
				ETHYLBENZENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				HEXACHLOROBUTADIENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				ISOPROPYLBENZENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				M-XYLENE & P-XYLENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				METHYLENE CHLORIDE	.0038	mg/L	J	Y Y P	J	15				CR2C2W	16:21
				N-BUTYLBENZENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				N-PROPYLBENZENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				NAPHTHALENE	.005	mg/L	U	N Y U	UJ	05B				CR2C2W	16:21
				O-XYLENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				P-ISOPROPYLTOLUENE	.08	mg/L		Y Y P	J	17				CR2C2W	16:21
				SEC-BUTYLBENZENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				STYRENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				TERT-BUTYLBENZENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				TETRACHLOROETHENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				TOLUENE	.024	mg/L		Y Y P	J	17				CR2C2W	16:21
				TRANS-1,2-DICHLOROETHENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				TRANS-1,3-DICHLOROPROPENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				TRICHLOROETHENE	.005	mg/L	U	N Y U	U					CR2C2W	16:21
				TRICHLOROFLUOROMETHANE	.01	mg/L	U	N Y U	U					CR2C2W	16:21
				VINYL CHLORIDE	.01	mg/L	U	N Y U	U					CR2C2W	16:21
	SW8270	SW3520	N 0 1	1,2,4-TRICHLOROBENZENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				1,2-DICHLOROBENZENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				1,3-DICHLOROBENZENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				1,4-DICHLOROBENZENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				2,2'-OXYBIS(1-CHLOROPROPANE)	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				2,4,5-TRICHLOROPHENOL	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				2,4,6-TRICHLOROPHENOL	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				2,4-DICHLOROPHENOL	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				2,4-DIMETHYLPHENOL	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				2,4-DINITROPHENOL	.05	mg/L	U	N Y U	U					CR2C2W	11:07
				2,4-DINITROTOLUENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				2,6-DINITROTOLUENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				2-CHLORONAPHTHALENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				2-CHLOROPHENOL	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				2-METHYLNAPHTHALENE	.01	mg/L	U	N Y U	U					CR2[illegible]	11:07
				2-METHYLPHENOL	.01	mg/L	U	N Y U	U					CR2[illegible]	[illegible]07

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE3001	SW8270	SW3520	N 0 1	2-NITROANILINE	.05	mg/L	U	N Y U	U					CR2C2W	11:07
				2-NITROPHENOL	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				3,3'-DICHLOROBENZIDINE	.05	mg/L	U	N Y U	U					CR2C2W	11:07
				3-NITROANILINE	.05	mg/L	U	N Y U	U					CR2C2W	11:07
				4,6-DINITRO-2-METHYLPHENOL	.05	mg/L	U	N Y U	U					CR2C2W	11:07
				4-BROMOPHENYL PHENYL ETHER	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				4-CHLORO-3-METHYLPHENOL	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				4-CHLOROANILINE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				4-CHLOROPHENYL PHENYL ETHER	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				4-METHYLPHENOL	.028	mg/L		Y Y P	J	17				CR2C2W	11:07
				4-NITROANILINE	.05	mg/L	U	N Y U	U					CR2C2W	11:07
				4-NITROPHENOL	.05	mg/L	U	N Y U	U					CR2C2W	11:07
				ACENAPHTHENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				ACENAPHTHYLENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				ANTHRACENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				BENZO(A)ANTHRACENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				BENZO(A)PYRENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				BENZO(B)FLUORANTHENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				BENZO(GHI)PERYLENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				BENZO(K)FLUORANTHENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				BIS(2-CHLOROETHOXY)METHANE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				BIS(2-CHLOROETHYL) ETHER	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				BIS(2-ETHYLHEXYL) PHTHALATE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				BUTYL BENZYL PHTHALATE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				CARBAZOLE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				CHRYSENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				DI-N-BUTYL PHTHALATE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				DI-N-OCTYL PHTHALATE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				DIBENZ(A,H)ANTHRACENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				DIBENZOFURAN	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				DIETHYL PHTHALATE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				DIMETHYL PHTHALATE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				FLUORANTHENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				FLUORENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				HEXACHLOROBENZENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				HEXACHLOROBUTADIENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				HEXACHLOROCYCLOPENTADIENE	.05	mg/L	U	N Y U	U					CR2C2W	11:07
				HEXACHLOROETHANE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				INDENO(1,2,3-CD)PYRENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				ISOPHORONE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				N-NITROSODI-N-PROPYLAMINE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				N-NITROSODIPHENYLAMINE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				NAPHTHALENE	.01	mg/L	U	N Y U	U					CR2C2W	11:07
				NITROBENZENE	.01	mg/L	U	N Y U	U					CR2C[illegible]	

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE3001	SW8270	SW3520	N	0	1	PENTACHLOROPHENOL	.05	mg/L	U	N	Y	U	U					CR2C2W	11:07
						PHENANTHRENE	.01	mg/L	U	N	Y	U	U					CR2C2W	11:07
						PHENOL	.01	mg/L	U	N	Y	U	U					CR2C2W	11:07
						PYRENE	.01	mg/L	U	N	Y	U	U					CR2C2W	11:07
KE3003	SW6010	SW3005	N	0	1	ALUMINUM	.115	mg/L	B	Y	Y		J	15	17			CR2C8W	16:59
						ANTIMONY	.06	mg/L	U	N	Y		U					CR2C8W	16:59
						BARIUM	.0494	mg/L	B	Y	Y		J	15				CR2C8W	16:59
						BERYLLIUM	.005	mg/L	U	N	Y		U					CR2C8W	16:59
						CADMIUM	.005	mg/L	U	N	Y		U					CR2C8W	16:59
						CALCIUM	39	mg/L		Y	Y							CR2C8W	16:59
						CHROMIUM	.01	mg/L	U	N	Y		U					CR2C8W	16:59
						COBALT	.05	mg/L	U	N	Y		U					CR2C8W	16:59
						COPPER	.025	mg/L	U	N	Y		U					CR2C8W	16:59
						IRON	3.27	mg/L		Y	Y							CR2C8W	16:59
						MAGNESIUM	14.4	mg/L		Y	Y							CR2C8W	16:59
						MANGANESE	.184	mg/L		Y	Y		J	17				CR2C8W	16:59
						NICKEL	.04	mg/L	U	N	Y		U					CR2C8W	16:59
						POTASSIUM	14.8	mg/L		Y	Y							CR2C8W	16:59
						SILVER	.01	mg/L	U	N	Y		U					CR2C8W	16:59
						SODIUM	19.6	mg/L		Y	Y							CR2C8W	16:59
						VANADIUM	.05	mg/L	U	N	Y		U					CR2C8W	16:59
						ZINC	.02	mg/L	U	N	Y		U					CR2C8W	16:59
	SW6010	TOTREC	N	0	1	ARSENIC	.011	mg/L		Y	Y							CR2C8W	16:59
						LEAD	.003	mg/L	U	N	Y		U					CR2C8W	16:59
						SELENIUM	.005	mg/L	U	N	Y		U					CR2C8W	16:59
						THALLIUM	.01	mg/L	U	N	Y		U					CR2C8W	16:59
	SW7470	TOTAL	N	0	1	MERCURY	.0002	mg/L	U	N	Y		U					CR2C8W	18:37
	SW8260	SW5030	N	0	5	1,1,1,2-TETRACHLOROETHANE	.005	mg/L	U	N	Y		U					CR2C8W	00:47
						1,1,1-TRICHLOROETHANE	.005	mg/L	U	N	Y		U					CR2C8W	00:47
						1,1,2,2-TETRACHLOROETHANE	.005	mg/L	U	N	Y		U					CR2C8W	00:47
						1,1,2-TRICHLOROETHANE	.005	mg/L	U	N	Y		U					CR2C8W	00:47
						1,1-DICHLOROETHANE	.005	mg/L	U	N	Y		U					CR2C8W	00:47
						1,1-DICHLOROETHENE	.005	mg/L	U	N	Y		U					CR2C8W	00:47
						1,1-DICHLOROPROPENE	.005	mg/L	U	N	Y		U					CR2C8W	00:47
						1,2,3-TRICHLOROBENZENE	.005	mg/L	U	N	Y		U					CR2C8W	00:47
						1,2,3-TRICHLOROPROPANE	.005	mg/L	U	N	Y		U					CR2C8W	00:47
						1,2,4-TRICHLOROBENZENE	.005	mg/L	U	N	Y		U					CR2C8W	00:47
						1,2,4-TRIMETHYLBENZENE	.005	mg/L	U	N	Y		U					CR2C8W	00:47
						1,2-DIBROMO-3-CHLOROPROPANE	.01	mg/L	U	N	Y		R	04A				CR2C8W	00:47
						1,2-DIBROMOETHANE	.005	mg/L	U	N	Y		U					CR2C8W	00:47
						1,2-DICHLOROBENZENE	.005	mg/L	U	N	Y		U					CR[illegible]	00:47
						1,2-DICHLOROETHANE	.005	mg/L	U	N	Y		U					CR2C8W	[illegible]47
						1,2-DICHLOROPROPANE	.005	mg/L	U	N	Y		U					CR2[illegible]	00:47

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE3003	SW8260	SW5030	N 0 5	1,3,5-TRIMETHYLBENZENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				1,3-DICHLOROBENZENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				1,3-DICHLOROPROPANE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				1,4-DICHLOROBENZENE	.0024	mg/L	J	Y Y	J	15	17			CR2C8W	00:47
				2,2-DICHLOROPROPANE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				2-BUTANONE	.025	mg/L	U	N Y	R	04A				CR2C8W	00:47
				2-CHLOROTOLUENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				2-HEXANONE	.025	mg/L	U	N Y	U					CR2C8W	00:47
				4-CHLOROTOLUENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				4-METHYL-2-PENTANONE	.025	mg/L	U	N Y	U					CR2C8W	00:47
				ACETONE	.012	mg/L	J B	Y Y	B	04A	06A	06C		CR2C8W	00:47
				BENZENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				BROMOBENZENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				BROMOCHLOROMETHANE	.005	mg/L	U	N Y	R	04A				CR2C8W	00:47
				BROMODICHLOROMETHANE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				BROMOFORM	.005	mg/L	U	N Y	U					CR2C8W	00:47
				BROMOMETHANE	.01	mg/L	U	N Y	U					CR2C8W	00:47
				CARBON DISULFIDE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				CARBON TETRACHLORIDE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				CHLOROBENZENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				CHLORODIBROMOMETHANE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				CHLOROETHANE	.01	mg/L	U	N Y	U					CR2C8W	00:47
				CHLOROFORM	.005	mg/L	U	N Y	U					CR2C8W	00:47
				CHLOROMETHANE	.01	mg/L	U	N Y	U					CR2C8W	00:47
				CIS-1,2-DICHLOROETHENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				CIS-1,3-DICHLOROPROPENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				DIBROMOMETHANE	.005	mg/L	U	N Y	R	04A				CR2C8W	00:47
				DICHLORODIFLUOROMETHANE	.01	mg/L	U	N Y	U					CR2C8W	00:47
				ETHYLBENZENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				HEXACHLOROBUTADIENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				ISOPROPYLBENZENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				M-XYLENE & P-XYLENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				METHYLENE CHLORIDE	.005	mg/L	U	N Y	UJ	04B				CR2C8W	00:47
				N-BUTYLBENZENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				N-PROPYLBENZENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				NAPHTHALENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				O-XYLENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				P-ISOPROPYLTOLUENE	.05	mg/L		Y Y	J	17				CR2C8W	00:47
				SEC-BUTYLBENZENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				STYRENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				TERT-BUTYLBENZENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				TETRACHLOROETHENE	.005	mg/L	U	N Y	U					CR2C8W	00:47
				TOLUENE	.011	mg/L		Y Y	J	17				CR[illegible]	[illegible]47
				TRANS-1,2-DICHLOROETHENE	.005	mg/L	U	N Y	U					CR2C8W	[illegible]47

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr:	Reason Codes 1	2	3	4	Lab Sample:	Analysis Time:
KE3003	SW8260	SW5030	N	0	5	TRANS-1,3-DICHLOROPROPENE	.005	mg/L	U	N	Y		U					CR2C8W	00:47
						TRICHLOROETHENE	.005	mg/L	U	N	Y		U					CR2C8W	00:47
						TRICHLOROFLUOROMETHANE	.01	mg/L	U	N	Y		U					CR2C8W	00:47
						VINYL CHLORIDE	.01	mg/L	U	N	Y		U					CR2C8W	00:47
	SW8270	SW3520	N	0	1	1,2,4-TRICHLOROBENZENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						1,2-DICHLOROBENZENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						1,3-DICHLOROBENZENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						1,4-DICHLOROBENZENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						2,2'-OXYBIS(1-CHLOROPROPANE)	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						2,4,5-TRICHLOROPHENOL	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						2,4,6-TRICHLOROPHENOL	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						2,4-DICHLOROPHENOL	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						2,4-DIMETHYLPHENOL	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						2,4-DINITROPHENOL	.05	mg/L	U	N	Y		U					CR2C8W	12:50
						2,4-DINITROTOLUENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						2,6-DINITROTOLUENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						2-CHLORONAPHTHALENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						2-CHLOROPHENOL	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						2-METHYLNAPHTHALENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						2-METHYLPHENOL	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						2-NITROANILINE	.05	mg/L	U	N	Y		U					CR2C8W	12:50
						2-NITROPHENOL	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						3,3'-DICHLOROBENZIDINE	.05	mg/L	U	N	Y		U					CR2C8W	12:50
						3-NITROANILINE	.05	mg/L	U	N	Y		U					CR2C8W	12:50
						4,6-DINITRO-2-METHYLPHENOL	.05	mg/L	U	N	Y		U					CR2C8W	12:50
						4-BROMOPHENYL PHENYL ETHER	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						4-CHLORO-3-METHYLPHENOL	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						4-CHLOROANILINE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						4-CHLOROPHENYL PHENYL ETHER	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						4-METHYLPHENOL	.018	mg/L		Y	Y		J	17				CR2C8W	12:50
						4-NITROANILINE	.05	mg/L	U	N	Y		U					CR2C8W	12:50
						4-NITROPHENOL	.05	mg/L	U	N	Y		U					CR2C8W	12:50
						ACENAPHTHENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						ACENAPHTHYLENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						ANTHRACENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						BENZO(A)ANTHRACENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						BENZO(A)PYRENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						BENZO(B)FLUORANTHENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						BENZO(GHI)PERYLENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						BENZO(K)FLUORANTHENE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						BIS(2-CHLOROETHOXY)METHANE	.01	mg/L	U	N	Y		U					CR2C8W	12:50
						BIS(2-CHLOROETHYL) ETHER	.01	mg/L	U	N	Y		U					CR2[illegible]	12:50
						BIS(2-ETHYLHEXYL) PHTHALATE	.01	mg/L	U	N	Y		U					CR2[illegible]	[illegible]50

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr:	Reason Codes 1 2 3 4	Lab Sample:	Analysis Time:
KE3003	SW8270	SW3520	N 0 1	BUTYL BENZYL PHTHALATE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				CARBAZOLE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				CHRYSENE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				DI-N-BUTYL PHTHALATE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				DI-N-OCTYL PHTHALATE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				DIBENZ(A,H)ANTHRACENE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				DIBENZOFURAN	.01	mg/L	U	N Y	U		CR2C8W	12:50
				DIETHYL PHTHALATE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				DIMETHYL PHTHALATE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				FLUORANTHENE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				FLUORENE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				HEXACHLOROBENZENE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				HEXACHLOROBUTADIENE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				HEXACHLOROCYCLOPENTADIENE	.05	mg/L	U	N Y	U		CR2C8W	12:50
				HEXACHLOROETHANE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				INDENO(1,2,3-CD)PYRENE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				ISOPHORONE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				N-NITROSODI-N-PROPYLAMINE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				N-NITROSODIPHENYLAMINE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				NAPHTHALENE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				NITROBENZENE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				PENTACHLOROPHENOL	.05	mg/L	U	N Y	U		CR2C8W	12:50
				PHENANTHRENE	.01	mg/L	U	N Y	U		CR2C8W	12:50
				PHENOL	.01	mg/L	U	N Y	U		CR2C8W	12:50
				PYRENE	.01	mg/L	U	N Y	U		CR2C8W	12:50

APPENDIX G

VARIANCES/NONCONFORMANCES

INTERNATIONAL TECHNOLOGY CORPORATION

Nonconformance No: PARCEL138FEB.NC1

Linked w/Variance No: X

Date of Issue: 2\28\99

Page _1 of 1__

Project Name: **Fort McClellan** - CK05

Project Number: 774645

-Nonconformance Report -

I.Description: (by the person identifying the change)

FORMER PRINT PLANT BUILDING 143 PARCEL 138(7)

The Site-Specific Field Sampling Plan proposed the collection of a groundwater sample from existing monitoring well PPMP-138-MW02. A groundwater sample was not collected from existing monitoring well PPMP-138-MW02.

Identified by: Jeffrey Tarr, PG - IT Site Manager

Date: 2\28\9999

II. Recommended Corrective Action:

Groundwater was not present in existing monitoring well PPMP-138-MW02. Several attempts were made to collect a groundwater sample, but all attempts were unsuccessful because the monitoring well was dry. The total depth of existing monitoring well PPMP-138-MW02 is approximately 6.25 feet below land surface. An attempt could be made to drill adjacent to existing monitoring well PPMP-138-W02 using hollow-stem augers until groundwater is encountered so that a monitoring well can be installed and a groundwater sample collected for chemical analysis.

III. Applicable Document/Work Plan: (by the person identifying the change)

Final Site-Specific Field Sampling Plan, Former Print Plant Building 143 Parcel 138(7), December 1998.

Distribution List:
1. Jeanne Yacoub, IT Project Manager
2. Steve Moran, IT Technical Lead
3. Jeffrey Tarr, IT Site Manager
4. Randy McBride, IT QA Officer
5. Mr. Ellis Pope, US Army Corps of Engineers
6. Mr. Ross McCollum, US Army Corps of Engineers

- Signatures -

Requested by: Jeffrey Tarr, PG - IT Site Manager — Jeffrey Tarr — 3/29/99 Date

Approved by: Ellis C. Pope — 11/5/99 Date

Project Manager Approval: Jeanne Yacoub — 5/5/99 Date

QA Approval: [illegible] — 3/30/99 Date

APPENDIX H

SUMMARY STATISTICS FOR BACKGROUND MEDIA, FORT MCCLELLAN, ALABAMA

Table 4-12. Summary Statistics for Surface Soil (0 -1 BLS)
Fort McClellan, Alabama

Run Time: 8:18:07 AM
Run Date: 7/10/98
Exposure Unit: SS

Parameter	Units	Total Number of Samples	Total Number of Detects	Frequency of Detection	NonDetects Min CRL	NonDetects Max CRL	Detects Minimum	Detects Maximum	Arithmetic Mean[a]	Standard Deviation[a]	Distribution[b]	95% UCL of Arith. Mean[a]	Exposure Point Concentration[c]		2x Arithmetic Mean[a]
Aluminum	ug/g	70	70	100%	- -	- -	2,400	39,900	8,153.00	6,095	Lognormal	11,187	11,187		16,306
Antimony	ug/g	69	47	68%	0.082	7.1	0.11	2.6	0.99	1.3	Lognormal	3.4	2.6	#	1.99
Arsenic	ug/g	66	66	100%	- -	- -	0.82	49	6.86	8.0	Lognormal	13	13		13.73
Barium	ug/g	70	70	100%	- -	- -	11	288	61.97	54	Lognormal	99	99		123.94
Beryllium	ug/g	54	54	100%	- -	- -	0.062	0.87	0.40	0.22	Lognormal	0.61	0.61		0.80
Cadmium	ug/g	70	45	64%	0.016	1.2	0.024	0.21	0.14	0.16	Lognormal	0.36	0.21	#	0.29
Calcium	ug/g	70	66	94%	75	100	63	17,900	861.37	2,265	Lognormal	1,942	1,942		1,723
Chromium	ug/g	70	70	100%	- -	- -	2.0	134	18.52	20	Lognormal	31	31		37.04
Cobalt	ug/g	70	68	97%	1.4	1.4	0.39	71	7.57	12	Lognormal	18	18		15.15
Copper	ug/g	70	69	99%	0.50	0.50	1.3	24	6.36	4.4	Lognormal	11	11		12.71
Iron	ug/g	70	70	100%	- -	- -	2,510	56,300	17,076.86	11,577	Lognormal	27,000	27,000		34,154
Lead	ug/g	70	70	100%	- -	- -	2.9	83	20.02	15	Lognormal	33	33		40.05
Magnesium	ug/g	70	70	100%	- -	- -	60	9,600	516.49	1,266	Lognormal	768	768		1,033
Manganese	ug/g	70	70	100%	- -	- -	8.0	6,850	789.46	1,192	Lognormal	3,183	3,183		1,579
Mercury	ug/g	70	23	33%	0.023	0.050	0.031	0.32	0.04	0.046	Lognormal	0.058	0.058		0.08
Nickel	ug/g	70	56	80%	1.6	2.3	1.8	22	5.17	4.2	Lognormal	9.7	9.7		10.33
Potassium	ug/g	70	60	86%	82	116	104	6,010	399.88	946	Lognormal	607	607		799.76
Selenium	ug/g	70	1	1%	0.25	0.58	1.3	1.3	0.24	0.14	Lognormal	0.29	0.29		0.48
Silver	ug/g	70	42	60%	0.016	0.80	0.019	1.9	0.18	0.34	Lognormal	0.70	0.70		0.36
Sodium	ug/g	70	66	94%	39	39	76	563	317.14	98	Lognormal	562	562		634.28
Thallium	ug/g	68	55	81%	6.6	6.6	0.015	34	1.71	5.9	Lognormal	12	12		3.43
Vanadium	ug/g	70	70	100%	- -	- -	4.7	158	29.42	26	Lognormal	48	48		58.84
Zinc	ug/g	70	64	91%	4.9	11	4.6	209	20.32	26	Lognormal	35	35		40.64

[a]Results of duplicate analyses were averaged and nondetects were treated as one-half the detection limit in the calculation of the arithmetic mean, standard deviation, and 95% UCL.

[b]For the calculation of exposure point concentrations (EPCs):

If fewer than four samples are available, or the standard deviation of the data set is zero, the distribution is undetermined.

If the probability plot correlation coefficient of the untransformed data is > or = to the critical value, the distribution is normal.

In all other cases, the distribution assumed for the EPC calculation was lognormal.

[c]The exposure point concentration (EPC) is the 95% upper confidence (UCL) of the arithmetic mean, unless the 95% UCL exceeds the maximum detected value.

If the latter is true, the maximum detected value is substituted as the EPC(denoted by a "#" next to the EPC).

- - Parameter detected in all samples.

Table 4-13. Summary Statistics for Subsurface Soil (>1-10 feet BLS)
Fort McClellan, Alabama

Run Time: 8:18:07 AM
Run Date: 7/10/98
Exposure Unit: SD

Parameter	Units	Total Number of Samples	Total Number of Detects	Frequency of Detection	NonDetects Min CRL	NonDetects Max CRL	Detects Minimum	Detects Maximum	Arithmetic Mean[a]	Standard Deviation[a]	Distribution[b]	95% UCL of Arith. Mean[a]	Exposure Point Concentration[c]		2x Arithmetic Mean[a]
Aluminum	ug/g	64	64	100%	- -	- -	1,690	24,600	6,795.47	3,552	Lognormal	9,068	9,068		13,591
Antimony	ug/g	63	46	73%	0.079	7.1	0.082	0.99	0.65	0.98	Lognormal	1.8	0.99	#	1.31
Arsenic	ug/g	64	61	95%	0.25	0.45	0.77	38	9.15	9.7	Lognormal	36	36		18.30
Barium	ug/g	64	64	100%	- -	- -	4.1	4,500	116.81	562	Lognormal	161	161		233.62
Beryllium	ug/g	59	57	97%	0.051	0.053	0.041	2.0	0.43	0.43	Lognormal	0.94	0.94		0.86
Cadmium	ug/g	64	35	55%	0.015	1.2	0.020	1.3	0.11	0.21	Lognormal	0.30	0.30		0.22
Calcium	ug/g	64	44	69%	57	200	67	3,650	318.58	606	Lognormal	772	772		637.17
Chromium	ug/g	64	64	100%	- -	- -	5.5	55	19.13	11	Lognormal	27	27		38.25
Cobalt	ug/g	64	60	94%	0.23	1.4	0.26	96	8.77	16	Lognormal	34	34		17.54
Copper	ug/g	64	64	100%	- -	- -	1.3	61	9.72	9.1	Lognormal	16	16		19.43
Iron	ug/g	64	64	100%	- -	- -	4,840	48,000	22,408.44	10,436	Normal	24,586	24,586		44,817
Lead	ug/g	64	64	100%	- -	- -	0.96	500	19.27	61	Lognormal	27	27		38.53
Magnesium	ug/g	64	60	94%	100	200	35	5,940	383.12	885	Lognormal	638	638		766.24
Manganese	ug/g	64	63	98%	4.1	4.1	7.3	19,000	677.67	2,417	Lognormal	3,864	3,864		1,355
Mercury	ug/g	64	31	48%	0.022	0.050	0.022	0.12	0.03	0.025	Lognormal	0.053	0.053		0.07
Nickel	ug/g	64	51	80%	1.6	2.2	2.2	38	6.45	7.8	Lognormal	13	13		12.89
Potassium	ug/g	64	52	81%	75	110	98	6,150	355.37	774	Lognormal	660	660		710.74
Selenium	ug/g	64	1	2%	0.25	0.58	0.55	0.55	0.24	0.060	Lognormal	0.27	0.27		0.47
Silver	ug/g	64	40	63%	0.016	1.2	0.021	0.66	0.12	0.15	Lognormal	0.47	0.47		0.24
Sodium	ug/g	64	63	98%	39	39	203	643	351.05	118	Lognormal	471	471		702.10
Thallium	ug/g	63	55	87%	0.0090	6.6	0.0090	24	0.70	3.0	Lognormal	2.0	2.0		1.40
Vanadium	ug/g	64	64	100%	- -	- -	8.7	99	32.45	20	Lognormal	47	47		64.89
Zinc	ug/g	64	50	78%	4.0	8.0	5.6	89	17.43	17	Lognormal	39	39		34.86

[a]Results of duplicate analyses were averaged and nondetects were treated as one-half the detection limit in the calculation of the arithmetic mean, standard deviation, and 95% UCL.

[b]For the calculation of exposure point concentrations (EPCs):
If fewer than four samples are available, or the standard deviation of the data set is zero, the distribution is undetermined.
If the probability plot correlation coefficient of the untransformed data is > or = to the critical value, the distribution is normal.
In all other cases, the distribution assumed for the EPC calculation was lognormal.

[c]The exposure point concentration (EPC) is the 95% upper confidence (UCL) of the arithmetic mean, unless the 95% UCL exceeds the maximum detected value.
If the latter is true, the maximum detected value is substituted as the EPC(denoted by a "#" next to the EPC).

- - Parameter detected in all samples.

Table 4-9. Summary Statistics for Background Groundwater
Fort McClellan, Alabama

Run Time: 4:50:27 PM
Run Date: 7/9/98
Exposure Unit: WD

Parameter	Units	Total Number of Samples	Total Number of Detects	Frequency of Detection	NonDetects Min CRL	NonDetects Max CRL	Detects Minimum	Detects Maximum	Arithmetic Mean[a]	Standard Deviation[a]	Distribution[b]	95% UCL of Arith. Mean[a]	Exposure Point Concentration[c]		2x Arithmetic Mean[a]
Alkalinity-phenolphthalein	µg/L	33	2	6%	5,000	5,000	104,000	132,000	9,500.00	28,204	Lognormal	9,763	9,763		19,000
Aluminum	µg/L	57	34	60%	50	141	59	9,600	1,167.66	2,030	Lognormal	19,988	9,600	#	2,335
Antimony	µg/L	57	2	4%	0.60	10.0	0.70	0.80	1.60	1.7	Lognormal	4.4	0.80	#	3.191
Arsenic	µg/L	57	10	18%	1.1	2.5	1.5	224	8.88	41	Lognormal	6.1	6.1		17.764
Barium	µg/L	57	53	93%	6.5	18	5.5	401	63.73	88	Lognormal	144	144		127.458
Beryllium	µg/L	57	15	26%	0.20	5.0	0.20	2.4	0.62	0.74	Lognormal	1.8	1.8		1.247
Bicarbonate	µg/L	33	22	67%	5,000	172,000	9,000	392,000	100,818.18	93,836	Lognormal	831,264	392,000	#	201,636
Bromide	µg/L	33	4	12%	200	200	278	715	138.03	121	Lognormal	171	171		276.06
Cadmium	µg/L	57	22	39%	0.100	5.0	0.100	5.3	1.26	1.2	Lognormal	10	5.3	#	2.51
Calcium	µg/L	57	48	84%	231	33,900	217	452,000	28,246.44	60,264	Lognormal	580,060	452,000	#	56,493
Chloride	µg/L	33	24	73%	923	2,640	1,080	11,000	2,446.06	2,363	Lognormal	4,347	4,347		4,892
Cobalt	µg/L	57	3	5%	20	25	20	25	11.68	2.8	Lognormal	13	13		23.36
Copper	µg/L	57	10	18%	5.0	19	5.3	235	12.74	32	Lognormal	21	21		25.48
Fluoride	µg/L	33	6	18%	200	200	202	646	146.24	124	Lognormal	185	185		292.48
Iron	µg/L	57	44	77%	45	78	2.5	25,800	3,520.25	5,364	Lognormal	590,286	25,800	#	7,040
Lead	µg/L	57	25	44%	0.60	4.5	0.60	27	4.00	6.1	Lognormal	13	13		7.998
Magnesium	µg/L	57	47	82%	100	18,400	176	149,000	10,640.88	19,972	Lognormal	146,372	146,372		21,282
Manganese	µg/L	57	42	74%	5.0	9.7	9.8	5,820	290.25	809	Lognormal	7,221	5,820	#	580.5
Nitrate,Nitrite	µg/L	33	4	12%	10.0	1,110	430	771	141.26	219	Lognormal	1,192	771	#	282.5
Potassium	µg/L	57	43	75%	270	1,240	1.0	68,500	3,597.54	9,508	Lognormal	18,602	18,602		7,195
Silver	µg/L	57	1	2%	0.100	10.0	0.40	0.40	2.00	2.4	Lognormal	141	0.40	#	4.00
Sodium	µg/L	57	52	91%	892	1,180	555	64,700	7,423.18	11,765	Lognormal	23,173	23,173		14,846
Sulfate	µg/L	33	25	76%	1000	3,680	1,650	1.4E+06	51,628.33	242,827	Lognormal	88,195	88,195		103,257
Thallium	µg/L	54	7	13%	0.100	10.0	0.100	5.3	0.73	1.2	Lognormal	5.3	5.3		1.455
Total Alkalinity	µg/L	33	22	67%	5,000	172,000	9,000	392,000	103,424.24	93,707	Lognormal	880,230	392,000	#	206,848
Total Phosphorous	µg/L	33	21	64%	10.0	10.0	10.0	282	44.30	70	Lognormal	140	140		88.594
Vanadium	µg/L	57	2	4%	10.0	28	11	11	8.49	4.3	Lognormal	11	11		16.975
Zinc	µg/L	57	25	44%	18	30	22	1,160	109.98	249	Lognormal	273	273		219.97

[a]Results of duplicate analyses were averaged and nondetects were treated as one-half the detection limit in the calculation of the arithmetic mean, standard deviation, and 95% UCL.

[b]For the calculation of exposure point concentrations (EPCs):

If fewer than four samples are available, or the standard deviation of the data set is zero, the distribution is undetermined.

If the probability plot correlation coefficient of the untransformed data is > or = to the critical value, the distribution is normal.

In all other cases, the distribution assumed for the EPC calculation was lognormal.

[c]The exposure point concentration (EPC) is the 95% upper confidence (UCL) of the arithmetic mean, unless the 95% UCL exceeds the maximum detected value. If the latter is true, the maximum detected value is substituted as the EPC(denoted by a "#" next to the EPC).

- - Parameter detected in all samples.