Final

Site Investigation Report
Small Weapons Storage and Cleaning Compound
Building 1378, Parcel 174(7)

Fort McClellan
Calhoun County, Alabama

Prepared for:

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List of Acronyms

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 Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), at Fort McClellan (FTMC) in Calhoun County, Alabama. The SI was conducted to determine whether chemical constituents are present at the site, and, if present, whether the concentrations present an unacceptable risk to human health or the environment. The SI at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), consisted of the sampling and analysis of four surface soil samples, one depositional soil sample, four subsurface soil samples, two groundwater samples, two surface water samples, and two sediment samples. In addition, two temporary monitoring wells were installed in the saturated zone to facilitate groundwater sample collection and provide site-specific geological and hydrogeological characterization information.

Chemical analyses of samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), indicate that metals, volatile organic compounds, and semivolatile organic compounds (SVOC) were detected in the environmental media sampled. To evaluate whether the detected constituents present an unacceptable risk to human health or the environment, the analytical results were compared to human health site-specific screening levels (SSSL), ecological screening values (ESV), and background screening values for FTMC.

The potential threat to human receptors is expected to be low. Although the site is projected to be transferred to the Alabama Army National Guard, the soils and groundwater data were screened against residential human health SSSLs to evaluate the site for possible unrestricted land reuse. In soils, the concentrations of aluminum (two subsurface soil samples) and iron (two surface/depositional soil samples) exceeded SSSLs and their respective background concentrations. In groundwater, the concentrations of manganese and iron exceeded SSSLs and their respective background concentrations. However, the concentrations of these metals were within the range of background values determined by SAIC (1998) and do not pose an unacceptable risk to human health. The PAH compound benzo(a)pyrene was detected in four surface/depositional soil samples at concentrations exceeding its SSSL but below the PAH background value. VOC concentrations in site media were below SSSLs.

Five metals (arsenic, iron, selenium, silver, and zinc) were detected in site media at concentrations exceeding ESVs and their respective background concentrations. However, with the exception of silver and selenium in surface and depositional soils, the concentrations of these

metals were within the range of background values determined by the SAIC (1998). Three PAH compounds were detected in surface/depositional soil samples at concentrations exceeding ESVs but below PAH background values. The site is located within a well-developed area of the Main Post, consisting of buildings, gravel-covered areas, and roads, interspersed with limited grassy areas. Viable ecological habitat is presently limited and is not expected to increase in the future land use scenario. Based on the low levels of metals, volatile organic compounds, and SVOCs detected and the future land use of this site, the potential threat to ecological receptors is expected to be low.

Based on the results of the SI, past operations at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), do not appear to have adversely impacted the environment. The metals and chemical constituents detected in site media do not pose an unacceptable risk to human health and the environment. Therefore, IT recommends “No Further Action” and unrestricted land reuse at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7).

1.0 Introduction

The U.S. Army has selected Fort McClellan (FTMC) located in Calhoun County, Alabama, for closure by the Base Realignment and Closure (BRAC) Commission under Public Laws 100-526 and 101-510. The 1990 Base Closure Act, Public Law 101-510, established the process by which U.S. Department of Defense (DOD) installations would be closed or realigned. The BRAC Environmental Restoration Program requires investigation and cleanup of federal properties prior to transfer to the public domain. The U.S. Army is conducting environmental studies of the impact of suspected contaminants at parcels at FTMC under the management of the U.S. Army Corps of Engineers (USACE), Mobile District. The USACE contracted with IT Corporation (IT) to perform the site investigation (SI) at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), under Contract Number DACA21-96-D-0018, Task Order CK05.

This SI report presents specific information and results compiled from the SI, including field sampling and analysis and monitoring well installation activities, conducted at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7).

1.1 Project Description

The Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), was identified as an area to be investigated prior to property transfer. The site was classified as a Category 7 site in the environmental baseline survey (EBS) (Environmental Science and Engineering, Inc. [ESE], 1998). Category 7 sites are areas that are not evaluated and/or that require further evaluation.

A site-specific field sampling plan (SFSP) attachment (IT, 1998a) and a site-specific safety and health plan (SSHP) attachment were finalized in November 1998. The SFSP and SSHP were prepared to provide technical guidance for sample collection and analysis at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). The SFSP was used in conjunction with the SSHP as attachments to the installation-wide work plan (IT, 1998b), and the installation-wide sampling and analysis plan (SAP) (IT, 2000a). The SAP includes the installation-wide safety and health plan and quality assurance plan.

The SI included fieldwork to collect four surface soil samples, one depositional soil sample, four subsurface soil samples, two groundwater samples, two surface water samples, and two sediment samples. Data from the field investigation were used to determine whether potential site-specific

chemicals are present at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7).

1.2 Purpose and Objectives

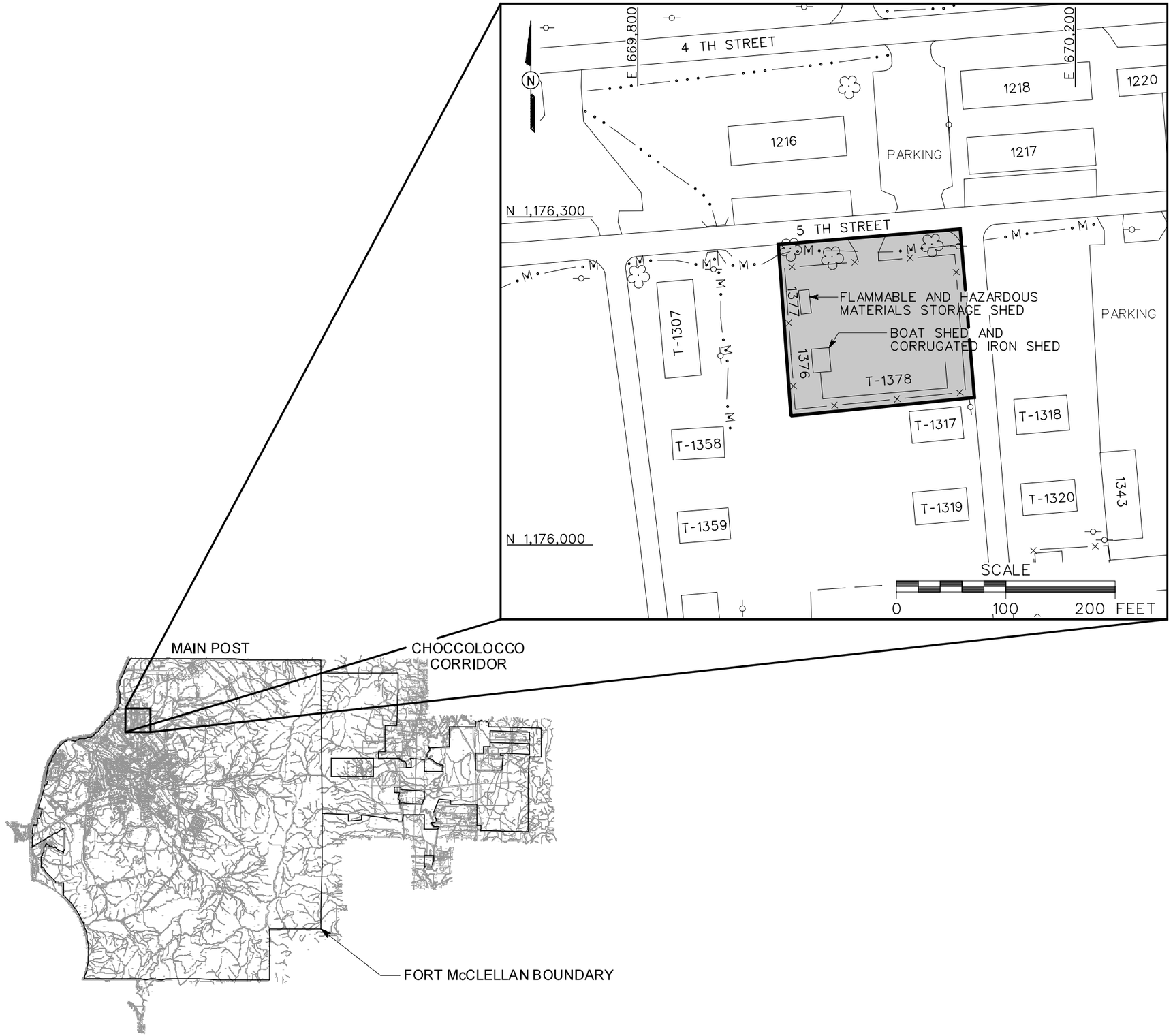
The SI program was designed to collect data from site media and provide a level of defensible data and information in sufficient detail to determine whether chemical constituents are present at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), at concentrations that present an unacceptable risk to human health or the environment. The conclusions of the SI in Chapter 6.0 are based on the comparison of the analytical results to human health site-specific screening levels (SSSL), ecological screening values (ESV), and background screening values for FTMC. The SSSLs and ESVs were developed by IT as part of the human health and ecological risk evaluations associated with SIs being performed under the BRAC Environmental Restoration Program at FTMC. The SSSLs, ESVs, and polynuclear aromatic hydrocarbon (PAH) background screening values are presented in the *Final Human Health and Ecological Screening Values and PAH Background Summary Report* (IT, 2000b). The PAH background screening values were developed by IT at the direction of the BRAC Cleanup Team to address the occurrence of PAH compounds in surface soils as a result of anthropogenic activities at FTMC. Background metals screening values are presented in the *Final Background Metals Survey Report, Fort McClellan, Alabama* (Science Applications International Corporation [SAIC], 1998).

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

1.3 Site Description and History

The Small Weapons Storage and Cleaning Compound, Parcel 174(7), is located on 5th Street in the northwest part of the FTMC Main Post (Figure 1-1). The compound was built in 1978 and was originally used for boat storage, but was redesigned for weapons cleaning in the late 1980s. The site consists of three storage buildings: a small corrugated iron shed (Building 1376), a small flammable and hazardous materials storage building (Building 1377), and a boat shed (Building 1378). The approximately 1-acre compound is covered with gravel, the entire area is fenced, and access is restricted (Figure 1-2). The site is managed by the Alabama Army National Guard.

The small flammable and hazardous materials storage building (Building 1377) is located on the northwest portion of the compound. Hazardous materials (lubricants) were stored in the building in quantities reportedly below Comprehensive Environmental Response, Compensation, and Liability Act reportable quantities. A small storage shed (Building 1376) is located on the



LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TREES / TREELINE
- PARCEL BOUNDARY
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- UTILITY POLE

FIGURE 1-1
SITE LOCATION MAP
SMALL WEAPONS STORAGE AND CLEANING COMPOUND, BUILDING 1378
PARCEL 174(7)

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

IT CORPORATION
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LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 5 FEET)
- TREES / TREELINE
- PARCEL BOUNDARY
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE

FIGURE 1-2
SITE MAP
SMALL WEAPONS STORAGE AND CLEANING COMPOUND, BUILDING 1378
PARCEL 174(7)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
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southwest part of the compound and was kept locked at all times. Small-caliber weapons were stripped and cleaned on tables that were temporarily placed in Building 1378. Weapons were not cleaned anywhere else within the compound. Weapons were cleaned using Safety Kleen™ solution. The chemicals used for cleaning activities were stored in the locked corrugated iron shed on site. A subcontractor for Army (Safety Kleen, Inc.) disposed of used chemicals. Although the EBS states that small-caliber weapons were stored at the site, evidence during a site visit and communication with Alabama Army National Guard personnel indicate that buildings at the site are not used for weapons storage. There have not been any reported releases at the site (ESE, 1998).

Site elevation at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), is approximately 750 feet above mean sea level. Surface drainage at the site follows the topography and flows to the west-northwest into manmade surface drainage features along the northern and western boundaries of the site.

2.0 Previous Investigations

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

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

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

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

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

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

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

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

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

The Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), was identified as a CERFA Category 7 site: areas that are not evaluated and/or that require additional evaluation.

3.0 Current Site Investigation Activities

This chapter summarizes SI activities conducted by IT at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), including environmental sampling and analysis and groundwater monitoring well installation activities.

3.1 Environmental Sampling

The environmental sampling performed during the SI at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), included the collection of surface and depositional soil samples, subsurface soil samples, groundwater samples, surface water samples, and sediment samples for chemical analysis. The sample locations were determined by observing site physical characteristics during a site visit 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 analysis of site-related parameters listed in Section 3.3.

3.1.1 Surface and Depositional Soil Sampling

Surface soil samples were collected from four locations and a depositional soil sample was collected from one location at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). Soil sampling locations and rationale are presented in Table 3-1. Sampling locations are shown on Figure 3-1. Sample designations and quality assurance/quality control (QA/QC) samples are listed in Table 3-2. Soil sampling locations were determined in the field by the on-site geologist based on the sampling rationale, presence of surface structures, site topography, and buried utilities.

Sample Collection. Surface and depositional soil samples were collected from the upper 1 foot of soil with a 3-inch diameter stainless-steel hand auger using the methodology specified in Section 4.9.1.1 of the SAP (IT, 2000a). Surface and depositional soil samples were collected by first removing surface debris, such as asphalt, rocks and vegetation, from the immediate sample area. The soil was collected with the sampling device and screened with a photoionization detector (PID) in accordance with Section 4.7.1.1 of the SAP (IT, 2000a). Samples for volatile organic compound (VOC) analysis were collected directly from the sampler with three EnCore® samplers. The remaining portion of the sample was transferred to a clean stainless-steel bowl, homogenized, and placed in the appropriate sample containers. The samples were analyzed for the parameters listed in Table 3-2 using methods outlined in Section 3.3. Sample collection logs are included in Appendix A.

Table 3-1

Sampling Locations and Rationale
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Media	Sample Location Rationale
PPMP-174-GP01	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected from the small weapons cleaning area southeast of the corrugated iron shed.
PPMP-174-GP02	Surface Soil Subsurface Soil	Surface soil and subsurface soil samples were collected from the small weapons cleaning area near the boat shed on the southeast corner of the parcel
PPMP-174-GP03	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected near the southwest corner of the hazardous material and flammable storage shed (Building 1377).
PPMP-174-GP04	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil, and groundwater samples were collected from the immediate vicinity (west) of the corrugated iron shed (Building 1376).
PPMP-174-SW/SD01	Surface Water Sediment	Surface water and sediment samples were collected from a downgradient sink (ditch) near the northwest corner of the parcel.
PPMP-174-SW/SD02	Surface Water Sediment	Surface water and sediment samples were collected from an upgradient location south of 5th Street near the northeast corner of the parcel.
PPMP-174-DEP01	Depositional Soil	A depositional soil sample was collected downstream (west) of the corrugated iron shed.

LEGEND

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- TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 5 FEET)
- TREES / TREELINE
- PARCEL BOUNDARY
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- SURFACE WATER/SEDIMENT SAMPLE LOCATION
- SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION
- GROUNDWATER, SURFACE AND SUBSURFACE SOIL SAMPLE LOCATION
- DEPOSITIONAL SOIL SAMPLE LOCATION
- A A' CROSS SECTION LOCATION

FIGURE 3-1
SAMPLE LOCATION MAP
SMALL WEAPONS STORAGE AND CLEANING COMPOUND, BUILDING 1378
PARCEL 174(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, Subsurface, and Depositional Soil Sample Designations and QA/QC Samples
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	Sample Depth (ft. bgs)	QA/QC Samples			Analytical Suite
			Field Duplicates	Field Splits	MS/MSD	
PPMP-174-GP01	PPMP-174-GP01-SS-KU0001-REG	0-1				TCL VOCs, TCL SVOCs, TAL Metals
	PPMP-174-GP01-DS-KU0002-REG	9-12				
PPMP-174-GP02	PPMP-174-GP02-SS-KU0003-REG	0-1			PPMP-174-GP02-SS-KU0003-MS	TCL VOCs, TCL SVOCs, TAL Metals
	PPMP-174-GP02-DS-KU0004-REG	6-9			PPMP-174-GP02-SS-KU0003-MSD	
PPMP-174-GP03	PPMP-174-GP03-SS-KU0005-REG	0-1	PPMP-174-GP03-SS-KU0006-FD	PPMP-174-GP03-SS-KU0007-FS		TCL VOCs, TCL SVOCs, TAL Metals
	PPMP-174-GP03-DS-KU0008-REG	1-3				
PPMP-174-GP04	PPMP-174-GP04-SS-KU0009-REG	0-1				TCL VOCs, TCL SVOCs, TAL Metals
	PPMP-174-GP04-DS-KU0010-REG	6-9				
PPMP-174-DEP01	PPMP-174-DEP01-DEP-KU0011-REG	0-1				TCL VOCs, TCL SVOCs, TAL Metals

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.
SVOC - Semivolatile organic compound.
TAL - Target analyte list.
TCL - Target compound list.
VOC - Volatile organic compound.

3.1.2 Subsurface Soil Sampling

Subsurface soil samples were collected from four soil borings at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), as shown on Figure 3-1. Subsurface soil sampling locations and rationale are presented in Table 3-1. Subsurface soil sample designations, depths, and QA/QC samples are listed in Table 3-2. Soil boring sampling locations were determined in the field by the on-site geologist based on the sampling rationale, presence of surface structures, site topography, and buried and overhead utilities. IT contracted TEG, Inc., a direct-push technology subcontractor, to assist in subsurface soil sample collection.

Sample Collection. Subsurface soil samples were collected from soil borings at depths greater than 1 foot below ground surface (bgs) in the unsaturated zone. The soil borings were advanced and 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.

Subsurface soil samples were collected continuously to 12 feet bgs or until direct-push sampler refusal was encountered. Samples were field screened using a PID in accordance with Section 4.7.1.1 of the SAP (IT, 2000a) to measure for volatile organic vapors. The sample displaying the highest reading was selected and sent to the laboratory for analysis; however, at those locations where PID readings were not greater than background, the deepest sample interval above the saturated zone was submitted for analysis. 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 analysis are summarized in Table 3-2. The on-site geologist constructed a detailed boring log for each soil boring. The boring logs are included in Appendix B. At the completion of soil sampling, boreholes were abandoned with bentonite pellets and hydrated with potable water, following borehole abandonment procedures summarized in Appendix B of the SAP (IT, 2000a).

3.1.3 Well Installation

Two temporary wells were installed in the saturated zone at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), to collect groundwater samples for laboratory analysis. The well locations are shown on Figure 3-1. Table 3-3 summarizes construction details of the wells installed at the Small Weapons Storage and Cleaning

Table 3-3

Temporary Well Construction Summary
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Well Location	Northing	Easting	Ground Elevation (ft msl)	TOC Elevation (ft msl)	Well Depth (ft bgs)	Screen Length (ft)	Screen Interval (ft bgs)	Well Material
PPMP-174-GP03	1176206.77	669946.07	746.52	749.11	20	15	4.75 - 19.75	2" ID Sch. 40 PVC
PPMP-174-GP04	1176162.58	669951.09	746.70	746.57	15	10	4.75 - 14.75	2" ID Sch. 40 PVC

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

Compound, Building 1378, Parcel 174(7). The well construction logs are included in Appendix B.

IT contracted Miller Drilling Inc. to install the temporary wells with a hollow-stem auger rig at the locations shown on Figure 3-1. The wells were installed following procedures outlined in Section 4.7 and Appendix C of the SAP (IT, 2000a). The boreholes at these locations were advanced with a 4.25-inch inside diameter (ID) hollow-stem auger from ground surface to the saturated zone. The borehole was augured to the depth of direct-push sampler refusal and samples were collected from 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 split-spoon refusal was encountered, the auger was advanced until the first water-bearing zone was encountered. The on-site geologist logging the auger boreholes continued the lithological log for each borehole from the depth of split-spoon sampler refusal to the bottom of the auger borehole by logging the auger drill cuttings. The 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 boring log for each 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 sand pack consisting of a number 1 filter sand (environmentally safe, clean fine sand, sieve size 20 to 40) was tremied around the well screen to approximately 2 feet above the top of the well screen as the augers were removed. The wells were surged using a solid PVC surge block for approximately 10 minutes, or until no more settling of the filter sand occurred inside the borehole. A bentonite seal, consisting of approximately 2 feet of bentonite pellets, was placed immediately on top of the sand pack and hydrated with potable water. If the bentonite seal was installed below the water table surface, the bentonite pellets were allowed to hydrate in the groundwater. 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 casing. The temporary well surface completion included attaching plastic sheeting around the PVC riser using duct tape. Additionally, sand bags were used to secure the sheeting to the ground surface around the temporary well.

The temporary wells were developed by surging and pumping with a 2-inch diameter submersible pump in accordance with methodology outlined in Section 4.8 and Appendix C of

the SAP (IT, 2000a). The submersible pump used for well development was moved in an up-and-down fashion to encourage any residual well installation materials to enter the well. These materials were then pumped out of the well in order to re-establish the natural hydraulic flow conditions. Development was performed until the water turbidity was less than or equal to 20 nephelometric turbidity units (NTU) or for a maximum of 4 hours. The well development logs are included in Appendix C.

3.1.4 Water Level Measurements

The depth to groundwater was measured in all temporary, permanent, and existing monitoring wells installed at FTMC on March 13 and 14, 2000, following procedures outlined in Section 4.18 of the SAP (IT, 2000a). Depth to groundwater was measured with an electronic water level meter. Each meter probe and cable were cleaned before 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 PVC well casing. A summary of groundwater level measurements is presented in Table 3-4.

3.1.5 Groundwater Sampling

Groundwater samples were collected from the two temporary wells installed at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). The groundwater sampling locations are shown on Figure 3-1. The groundwater sampling locations and rationale are listed in Table 3-1. The groundwater sample designations and QA/QC samples are listed in Table 3-5.

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

3.1.6 Surface Water Sampling

Two surface water samples were collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). Surface water sample locations are shown on Figure 3-1. The surface water sampling locations and rationale are listed in Table 3-1. The surface

Table 3-4

Groundwater Elevations
Small Weapons Storage and Cleaning Compound
Building 1378, Parcel 174(7) and Vicinity
Fort McClellan, Calhoun County, Alabama

Well Location	Date	Depth to Groundwater (ft BTOC)	Top of Casing Elevation (ft msl)	Ground Elevation (ft msl)	Groundwater Elevation (ft msl)
Parcel 174(7)					
PPMP-174-GP03	14-Mar-00	4.75	749.11	746.52	744.36
PPMP-174-GP04	14-Mar-00	2.58	746.57	746.70	743.99
Parcel 148(7)					
FTA-148-GP01	14-Mar-00	4.18	756.15	754.93	751.97
FTA-148-GP02	14-Mar-00	7.13	751.31	750.51	744.18
FTA-148-GP08	14-Mar-00	4.37	761.21	760.09	756.84
FTA-148-GP11	14-Mar-00	3.75	753.91	752.06	750.16
FTA-148-GP13	14-Mar-00	2.62	753.05	751.59	750.43
Parcel 143(7)					
PPMP-143-GP03	14-Mar-00	6.23	761.99	762.04	755.76
PPMP-143-GP04	14-Mar-00	0.75	755.52	755.93	754.77
PPMP-143-GP05	14-Mar-00	4.48	758.82	757.16	754.34
Parcel 502(7)					
UST-502-MW01	14-Mar-00	7.60	743.71	743.95	736.11
UST-502-MW02	14-Mar-00	7.29	744.09	744.27	736.80
UST-502-MW03	14-Mar-00	9.25	744.23	744.45	734.98

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 Samples
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	QA/QC Samples			Analytical Suite
		Field Duplicates	Field Splits	MS/MSD	
PPMP-174-GP03	PPMP-174-GP03-GW-KU3001-REG	PPMP-174-GP03-GW-HU3002-FD	PPMP-174-GP03-GW-KU3003-FS		TCL VOCs, TCL SVOCs, TAL Metals
PPMP-174-GP04	PPMP-174-GP04-GW-KU3004-REG			PPMP-174-GP04-GW-KU3004-MS PPMP-174-GP04-GW-KU3004-MSD	TCL VOCs, TCL SVOCs, TAL Metals

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

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.
SVOC - Semivolatile organic compound
TAL - Target analyte list.
TCL - Target compound list.
VOC - Volatile organic compound.

Table 3-6

Groundwater and Surface Water Field Parameters
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Media	Date	Specific Conductivity (mS/cm)[a]	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (^oC)	Turbidity (NTU)	pH (SU)
PPMP-174-GP03	GW	24-Feb-99	2.283	0.90	-21.9	15.23	43.0	6.74
PPMP-174-GP04	GW	24-Feb-99	1.528	2.43	96.0	15.75	10.4	6.77
PPMP-174-SW/SD01	SW	27-Jan-99	0.462	11.00	0.0	18.27	13.0	7.82
PPMP-174-SW/SD02	SW	8-Feb-99	0.807	7.91	217.7	17.10	0.2	6.65

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

^oC - Degrees Celsius.
GW - Groundwater.
mg/L - Milligrams per liter.
mS/cm - Millisiemens per centimeter.
mV - Millivolts.
NTU - Nephelometric turbidity units.
ORP - Oxidation-reduction potential.
SU - Standard units.
SW - Surface water.

water sample designations and QA/QC samples are listed in Table 3-7. The sampling locations were determined in the field, based on drainage pathways and actual field observations.

Sample Collection. Surface water samples were collected in accordance with the procedures specified in Section 4.9.1.3 of the SAP (IT, 2000a). The samples were collected by dipping a stainless-steel pitcher in the water and pouring the water into the appropriate sample containers. The samples were collected after the field parameters described in Section 3.1.5 had been measured using a calibrated water quality meter. The field parameter readings are presented in Table 3-6. Sample collection logs are included in Appendix A. The samples were analyzed for the parameters listed in Table 3-7 using methods outlined in Section 3.3.

3.1.7 Sediment Sampling

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

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

3.2 Surveying of Sample Locations

Sample locations were surveyed using global positioning system survey techniques described in Section 4.3 of the SAP (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 of 1983. Elevations were referenced to the North American Vertical Datum of 1988. Horizontal coordinates and elevations are included in Appendix D.

3.3 Analytical Program

Samples collected during the SI were analyzed for various chemical and physical parameters. The specific suite of analyses performed was based on the potential site-specific chemicals historically at the site and EPA, ADEM, FTMC, and USACE requirements. Samples collected at

Table 3-7

Surface Water and Sediment Sample Designations and QA/QC Samples
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Designation	Sample Depth (ft. bgs)	QA/QC Samples			Analytical Suite
			Field Duplicates	Field Splits	MS/MSD	
PPMP-174-SW/SD01	PPMP-174-SW/SD01-SW-KU2001-REG	NA	PPMP-174-SW/SD01-SW-KU2002-FD	PPMP-174-SW/SD02-SW-KU2003-FS		TCL VOCs, TCL SVOCs, TAL Metals
	PPMP-174-SW/SD01-SD-KU1001-REG	0-0.5				TCL VOC/SVOC, TAL Metals, TOC, Grain size
PPMP-174-SW/SD02	PPMP-174-SW/SD02-SW-KU2004-REG	NA			PPMP-174-SW/SD02-SW-KU2004-MS PPMP-174-SW/SD02-SW-KU2004-MSD	TCL VOCs, TCL SVOCs, TAL Metals
	PPMP-174-SW/SD02-SD-KU1002-REG	0-0.5				TCL VOC/SVOC, TAL Metals, TOC, Grain size

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.
SVOC - Semivolatile organic compound.
TAL - Target analyte list.
TCL - Target compound list.
TOC - Total organic carbon
VOC - Volatile organic compound.

the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), were analyzed for the following parameters:

- Target compound list VOCs – EPA Method 5035/8260B
- Target compound list semivolatile organic compounds (SVOC) – EPA Method 8270C
- Target analyte list metals – EPA Method 6010B/7000
- Total organic carbon (TOC) – EPA Method 9060 (sediment only)
- Grain size – American Society for Testing and Materials Method D421/D422 (sediment only).

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

3.4 Sample Preservation, Packaging, and Shipping

Sample preservation, packaging, and shipping followed requirements specified in Section 4.13.2 of the SAP (IT, 2000a). Sample containers, sample volumes, preservatives, and holding times for the analyses required in this SI are listed in Chapter 5.0, Table 5-1, of Appendix B of the SAP (IT, 2000a). Sample documentation and chain-of-custody records 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 during the SI at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), was segregated as follows:

- Drill cuttings
- Purge water from well development and sampling activities, and decontamination fluids
- Personal protective equipment (PPE).

Solid IDW was stored inside the fenced area surrounding Buildings 335 and 336 in lined roll-off bins prior to characterization and final disposal. Solid IDW was characterized using toxicity characteristic leaching procedure analyses. Based on the results, drill cuttings and PPE generated during the SI at the Small Weapons Storage and Cleaning Compound Building 1378, Parcel 174(7), were disposed as nonregulated waste at the Industrial Waste Landfill on the Main Post of FTMC.

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

3.6 Variances/Nonconformances

One variance to the SFSP was recorded during completion of the SI at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). 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 3-8 and included in Appendix G.

There were not any nonconformances to the SFSP recorded during completion of the SI at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7).

3.7 Data Quality

The field sample analytical data are presented in tabular form in Appendix E. The field samples were collected, documented, handled, analyzed, and reported in a manner consistent with the SI work plan; the FTMC SAP and installation-wide quality assurance plan; and standard, accepted methods and procedures. 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

Table 3-8

Variance to the Site-Specific Field Sampling Plan
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Variance to the SFSP	Justification for Variance	Impact to Site Investigation
Surface water and sediment samples were not collected at PPMP-174-SW/SD03.	The drainage did not contain surface water and sediment at the time of sample collection.	None. A depositional soil sample (PPMP-174-DEP01) was collected at the proposed PPMP-174-SW/SD03 sample location.

Section 3.6, one variance to the SFSP was recorded during completion of the SI; however, the variance did not impact the usability of the data.

Data Validation. A complete (100 percent) Level III data validation effort was performed on the reported analytical data. Appendix F consists of a data validation summary report that was prepared to discuss the results of the validation. 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 (ITEMS™) database for tracking and reporting. The qualified data were used in the comparisons to the SSSLs and ESVs developed by IT. Rejected data (assigned an "R" qualifier) were not used in comparisons 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 Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), 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 consists 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 appears to dominate the unit and consists primarily of coarse-grained, vitreous quartzite, and friable, fine- to coarse-grained, orthoquartzitic sandstone, both of which locally contain conglomerate. The fine-grained facies consists of sandy and micaceous shale and silty, micaceous mudstone which are locally interbedded with the coarse clastic rocks. The abundance of orthoquartzitic sandstone and quartzite suggests that most of the Chilhowee Group bedrock in the vicinity of FTMC belongs to the Weisner Formation (Osborne and Szabo, 1984).

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

The Rome Formation overlies the Shady Dolomite and locally occurs to the northwest and southwest of the Main Post as mapped by Warman and Causey (1962) and 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 weather 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

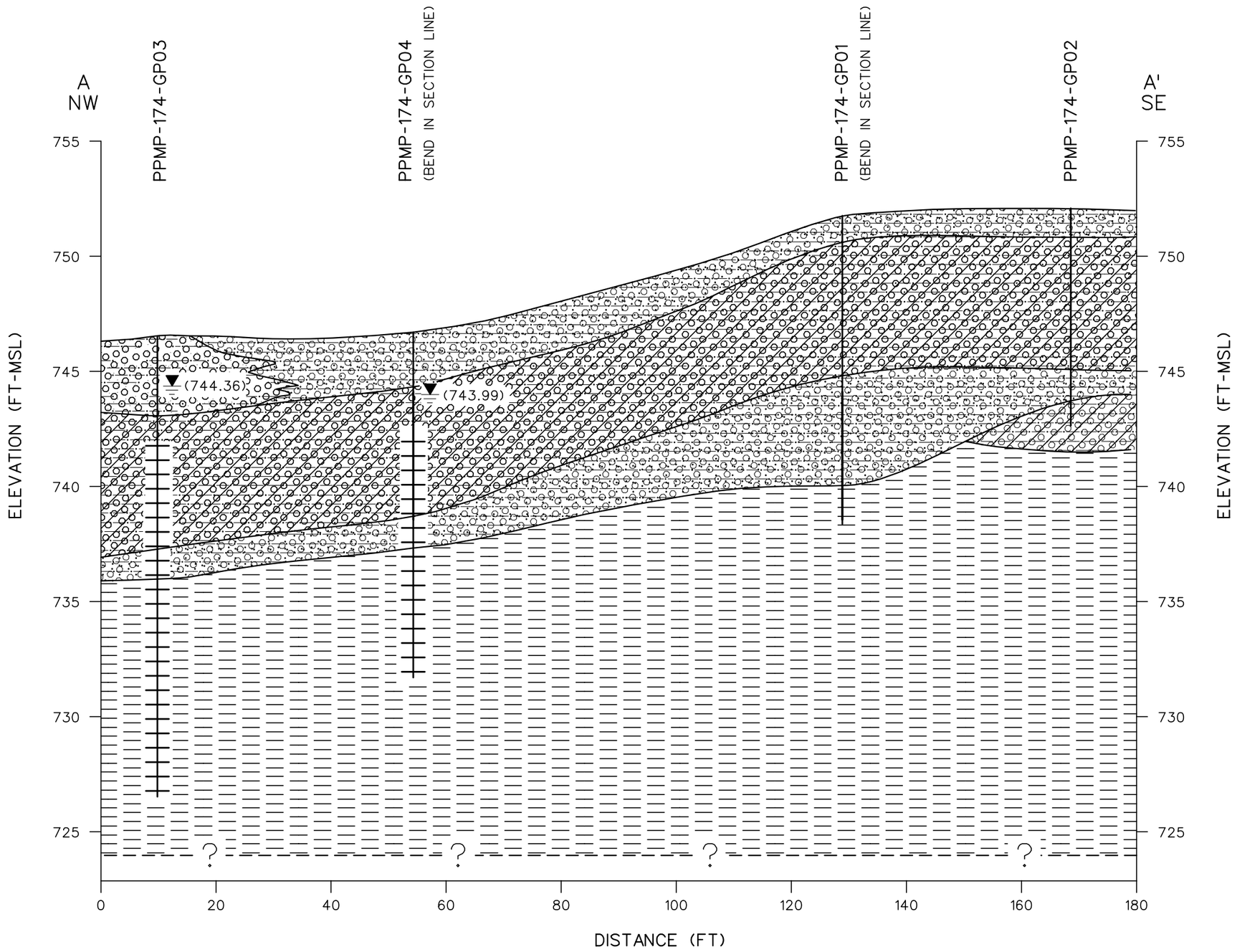
interpreted as a major splay of the Pell City fault (Osborne and Szabo, 1984). The Ordovician sequence that makes up the Eden thrust sheet is exposed at FTMC through an eroded "window," or "fenster," in the overlying thrust sheet. Rocks within the window display complex folding, with the folds being 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 in the area of the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), are mapped as the Rarden Series. The Rarden Series Soils consist of moderately well drained, strongly acid to very strongly acid soils. They generally occur in large areas on wide shale ridges. These soils have developed from the residuum of shale and fine-grained, platy sandstone or limestone. The series generally occurs as shallow soils found on gentle slopes and consists of yellowish-red to dark-brown silty clay loam. The soils in this series generally have slow infiltration rates, which results in high runoff, making the soil very susceptible to erosion (U.S. Department of Agriculture, 1961).

A geologic cross section was constructed using the direct-push and hollow-stem auger boring data collected during the SI and is presented on Figure 4-1. Description of the soil from the four direct-push and hollow-stem auger borings revealed a fill material consisting of a brownish, silty, sandy gravel covering most of the site to a depth of approximately 1 foot bgs. The soil beneath the fill material consists of a reddish-brown to reddish-gray, sandy silty clay approximately 5 to 7 feet thick. A 1- to 4-foot-thick gravelly silty sand interval is present immediately above bedrock. This sandy interval may represent past fluvial deposition.

The bedrock at the site is mapped as undifferentiated Mississippian/Ordovician Floyd and Athens Shale (Osborne et al., 1997). The Floyd and Athens Shale consists of brown, dark-gray to black shale with localized interbedded limestone and sandstone (Osborne et al., 1989). During temporary well installation activities at the site, gray shale was encountered in all four borings at depths from approximately 5 feet bgs to the bottom of each boring. Drilling logs for the two temporary wells and the two direct-push samples are presented in Appendix B.



LEGEND

- SCREEN INTERVAL
- WATER TABLE (3/14/00)
- 744.36 GROUNDWATER ELEVATION (FT MSL)
- GRAVELLY, SILTY SAND
- SILTY, SANDY GRAVEL
- GRAVELLY, SILTY CLAY
- WEATHERED SHALE
- DASHED WHERE INFERRED

NOTES:

1. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
2. SEE FIGURE 3-1 FOR CROSS SECTION LOCATION.
3. PPMP-174-GP01 AND PPMP-174-GP02 ARE DIRECT-PUSH BORINGS.

HORIZONTAL

0 20 40 FEET

FIGURE 4-1
GEOLOGIC CROSS SECTION A-A'
SMALL WEAPONS STORAGE AND CLEANING COMPOUND, BUILDING 1378
PARCEL 174(7)

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

IT CORPORATION
A Member of The IT Group

DWG. NO.: ...\774645es.590 | PROJ. NO.: 774645
INITIATOR: J. REMO | PROJ. MGR.: J. YACOUB
DRAFT. CHCK. BY: | ENGR. CHCK. BY: S. MORAN
DATE LAST REV.: | DRAWN BY:
STARTING DATE: 08/15/00 | DRAWN BY: D. BILLINGSLEY
03/28/01 08:18:02 AM DBILLNG c:\cadd\design\774645es.590

4.2 Site Hydrology

4.2.1 Surface Hydrology

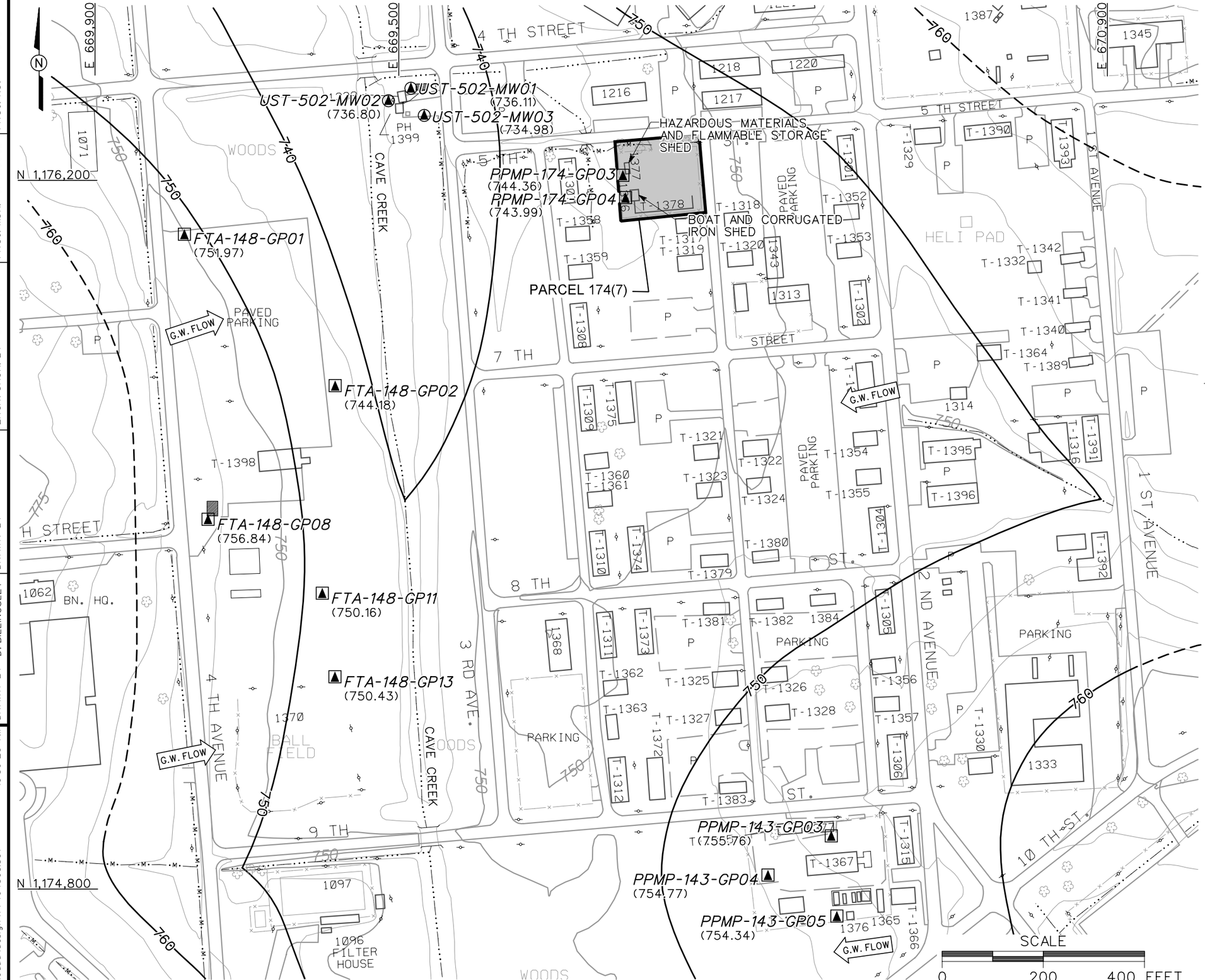
Precipitation in the form of rainfall averages about 54 inches annually in Anniston, Alabama, with infiltration rates annually exceeding evapotranspiration rates (National Oceanic and Atmospheric Administration, 1998). The major surface water features at the Main Post of FTMC include Remount Creek, Cane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

Elevation of the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), is approximately 750 feet above mean sea level. Surface drainage at the site follows the topography and flows to the west-northwest into man-made surface drainage features along the northern and western boundaries of the site. The man-made surface drainage features empty into Cave Creek just west of the parcel.

4.2.2 Hydrogeology

During soil boring and well installation activities, groundwater was encountered between 10 and 12 feet bgs (Appendix B). Static groundwater levels were measured in monitoring wells at the site, and in wells at adjacent parcels on March 14, 2000 (Table 3-4). Groundwater elevations were calculated by measuring the depth to groundwater relative to the surveyed top-of-casing elevations. Figure 4-2 is a groundwater elevation map constructed from the March 2000 groundwater elevation data. Based on the groundwater elevation contour map, horizontal groundwater flow in the vicinity of the site is to the west. The hydraulic gradient across this area of FTMC is approximately 0.02 feet per foot.

Static groundwater levels summarized in the Table 3-4 are at shallower depths than the depth to groundwater encountered during drilling (Appendix B). This indicates that groundwater is under confined to semi-confined conditions and has an upward vertical hydraulic head.



LEGEND

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

FIGURE 4-2
GROUNDWATER ELEVATION MAP
SMALL WEAPONS STORAGE AND CLEANING COMPOUND, BUILDING 1378
PARCEL 174(7)

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

IT CORPORATION
A Member of The IT Group

DRAFT. CHCK. BY:
ENGR. CHCK. BY: S. MORAN
DRAWN BY:
DATE LAST REV.:
STARTING DATE: 08/11/00
DRAWN BY: D. BILLINGSLEY
INITIATOR: J. REMO
PROJ. MGR.: J. YACOUB
DWG. NO.: ...\774645es.591
PROJ. NO.: 774645
03/29/01 10:36:20 AM
DBILLING
c:\cadd\design\774645es.591

5.0 Summary of Analytical Results

The results of the chemical analysis of samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), 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, the analytical results were compared to the human health SSSLs and ESVs for FTMC. The SSSLs and ESVs were developed by IT for human health and ecological risk evaluations as part of the on-going SIs being performed under the BRAC Environmental Restoration Program at FTMC.

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

Six compounds were quantified by both SW-846 Method 8260B (as VOC) and Method 8270C (as SVOC), namely, 1,2,4-trichlorobenzene, 1,4-dichlorobenzene, 1,3-dichlorobenzene, 1,2-dichlorobenzene, hexachlorobutadiene, and naphthalene. Method 8260B yields a reporting limit of 0.005 milligram per kilogram (mg/kg), while Method 8270C has a reporting limit 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 reporting limit, this method should be considered superior to Method 8270C when quantifying low levels (0.005 to 0.330 mg/kg) of these compounds. Method 8270C and its associated methylene chloride extraction step is superior, however, when dealing with samples that contain higher concentrations (greater than 0.330 mg/kg) of these compounds. Therefore, all data were considered, 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 nearly accurate result.

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

5.1 Surface and Depositional Soil Analytical Results

Four surface soil samples and one depositional soil sample were collected for chemical analysis at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). Surface and depositional soil samples were collected from the upper 1 foot of soil at the locations shown on Figure 3-1. Analytical results were compared to residential human health SSSLs, ESVs, and background screening values (metals and PAHs), as presented in Table 5-1.

Metals. Twenty metals were detected in surface and depositional soil samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). The concentrations of five metals (aluminum, arsenic, chromium, iron, and manganese) exceeded SSSLs. Of these metals, only arsenic and iron at sample locations PPMP-174-DEP01 and PPMP-174-GP03 also exceeded their respective background concentrations. However, the arsenic and iron results were within the range of background values determined by SAIC (1998) (Appendix H).

Nine metals (aluminum, arsenic, chromium, iron, manganese, selenium, silver, vanadium, and zinc) were detected at concentrations exceeding ESVs. Of these metals, arsenic (PPMP-174-DEP01 and PPMP-174-GP03), iron (PPMP-174-DEP01 and PPMP-174-GP03), selenium (all sample locations), silver (PPMP-174-GP03), and zinc (PPMP-174-DEP01, PPMP-174-GP01, and PPMP-174-GP04) also exceeded their respective background concentration. However, with the exception of silver at one location (PPMP-174-GP03) and selenium at four locations, the concentrations of their metals that exceeded ESVs and the respective background concentration were within the range of background values determined by SAIC (1998) (Appendix H). The silver concentration (2.6 g/kg) at PPMP-174-GP03 exceeded the range of background values (0.019 mg/kg to 1.9 mg/kg). The selenium concentrations (1.4 mg/kg to 2.2 mg/kg) exceeded the range of background values (1.3 mg/kg).

Volatile Organic Compounds. Five VOCs (1,2,4-trimethylbenzene, 2-butanone, acetone, bromomethane, and methylene chloride) were detected in surface and depositional soil samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). The bromomethane results, methylene chloride results, and three of the five acetone results were flagged with a “B” data qualifier, signifying that these compounds were also detected in an

Table 5-1

Surface and Depositional Soil Analytical Results
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					PPMP-174 PPMP-174-DEP01 KU0011 9-Mar-99 0- 1					PPMP-174 PPMP-174-GP01 KU0001 29-Jan-99 0- 1				
Parameter	**Units**	**BKG[a]**	**SSSL[b]**	**ESV[b]**	**Result**	**Qual**	**>BKG**	**>SSSL**	**>ESV**	**Result**	**Qual**	**>BKG**	**>SSSL**	**>ESV**
METALS														
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	7.16E+03				YES	8.15E+03			YES	YES
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	1.98E+01		YES	YES	YES	8.70E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	4.65E+01					5.28E+01				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	7.50E-01					7.00E-01				
Calcium	mg/kg	1.72E+03	NA	NA	2.28E+03		YES			5.46E+03		YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	2.05E+01				YES	1.50E+01	J			YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	4.70E+00	J				4.20E+00	J			
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	3.09E+01		YES			2.30E+01		YES		
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	3.68E+04		YES	YES	YES	2.68E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	3.85E+01					2.70E+01	J			
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	1.34E+03		YES			2.25E+03	J	YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	2.38E+02				YES	1.21E+02	J			YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	6.60E-02	B				4.30E-02				
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	1.25E+01		YES			9.80E+00				
Potassium	mg/kg	8.00E+02	NA	NA	3.35E+02	J				4.23E+02	J			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	1.50E+00		YES		YES	1.50E+00		YES		YES
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	1.21E+02	B				7.17E+01	B			
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	3.17E+01				YES	2.46E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	8.35E+01		YES		YES	5.27E+01	J	YES		YES
VOLATILE ORGANIC COMPOUNDS														
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	ND					6.50E-03	J			
Acetone	mg/kg	NA	7.76E+02	2.50E+00	8.90E-03	B				3.90E-02	J			
Bromomethane	mg/kg	NA	1.09E+01	NA	ND					ND				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	4.60E-03	B				2.70E-03	B			

Table 5-1

Surface and Depositional Soil Analytical Results
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					PPMP-174 PPMP-174-DEP01 KU0011 9-Mar-99 0- 1					PPMP-174 PPMP-174-GP01 KU0001 29-Jan-99 0- 1				
Parameter	**Units**	**BKG[a]**	**SSSL[b]**	**ESV[b]**	**Result**	**Qual**	**>BKG**	**>SSSL**	**>ESV**	**Result**	**Qual**	**>BKG**	**>SSSL**	**>ESV**
SEMIVOLATILE ORGANIC COMPOUNDS														
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	ND					ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	1.00E-01	J				9.70E-02	J			
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	ND					5.30E-02	J			
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	2.90E-01	J				8.20E-02	J			
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	5.50E-01			YES	YES	1.60E-01	J		YES	YES
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	7.10E-01					1.70E-01	J			
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	3.20E-01	J				9.10E-02	J			
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	3.40E-01	J				1.80E-01	J			
Carbazole	mg/kg	NA	3.11E+01	NA	ND					ND				
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	3.00E-01	J				1.10E-01	J			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					ND				
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	7.50E-02	J				4.50E-02	J			
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	3.30E-01	J			YES	9.70E-02	J			
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	3.50E-01	J				9.20E-02	J			
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	9.50E-02	J				3.10E-02	J			
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	3.00E-01	J			YES	9.20E-02	J			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	2.30E-01	J				6.50E-02	B			

Table 5-1

Surface and Depositional Soil Analytical Results
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					PPMP-174 PPMP-174-GP02 KU0003 29-Jan-99 0- 1					PPMP-174 PPMP-174-GP03 KU0005 14-Jan-99 0- 1					PPMP-174 PPMP-174-GP04 KU0009 14-Jan-99 0- 1				
Parameter	**Units**	**BKG[a]**	**SSSL[b]**	**ESV[b]**	**Result**	**Qual**	**>BKG**	**>SSSL**	**>ESV**	**Result**	**Qual**	**>BKG**	**>SSSL**	**>ESV**	**Result**	**Qual**	**>BKG**	**>SSSL**	**>ESV**
METALS																			
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	6.22E+03				YES	1.04E+04			YES	YES	1.01E+04			YES	YES
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	3.80E+00			YES		1.58E+01	J	YES	YES	YES	8.30E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	3.36E+01					6.48E+01					3.81E+01				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	4.90E-01	J				6.70E-01					7.30E-01				
Calcium	mg/kg	1.72E+03	NA	NA	3.15E+04		YES			9.58E+03		YES			4.22E+03		YES		
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	2.38E+01	J		YES	YES	2.00E+01				YES	1.54E+01				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	2.60E+00	J				ND					ND				
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	9.50E+00					2.40E+01		YES			2.90E+01		YES		
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	2.06E+04			YES	YES	4.25E+04		YES	YES	YES	2.82E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	1.34E+01	J				1.72E+01					1.42E+01				
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	1.63E+04	J	YES			1.79E+03		YES			3.25E+03		YES		
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	1.15E+02	J			YES	4.56E+02			YES	YES	1.29E+02				YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	4.00E-02					5.60E-02					3.40E-02	J			
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	7.70E+00					8.90E+00	J				1.49E+01		YES		
Potassium	mg/kg	8.00E+02	NA	NA	3.42E+02	J				4.18E+02	J				3.16E+02	J			
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	9.00E-01		YES		YES	2.20E+00		YES		YES	1.40E+00		YES		YES
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					2.70E+00		YES		YES	1.80E+00		YES		
Sodium	mg/kg	6.34E+02	NA	NA	9.86E+01	B				6.55E+01	J				4.34E+01	J			
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	2.66E+01				YES	1.18E+01				YES	8.10E+00				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	2.09E+01	J				4.56E+01	J	YES			7.13E+01		YES		YES
VOLATILE ORGANIC COMPOUNDS																			
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	1.00E-01	6.60E-03	J				ND					ND				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	3.80E-03	J				ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	2.20E-02	J				1.50E-02	B				1.70E-02	B			
Bromomethane	mg/kg	NA	1.09E+01	NA	ND					1.90E-03	B				1.90E-03	B			
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	2.70E-03	B				2.80E-03	B				2.90E-03	B			

Table 5-1

Surface and Depositional Soil Analytical Results
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					PPMP-174 PPMP-174-GP02 KU0003 29-Jan-99 0- 1					PPMP-174 PPMP-174-GP03 KU0005 14-Jan-99 0- 1					PPMP-174 PPMP-174-GP04 KU0009 14-Jan-99 0- 1				
Parameter	**Units**	**BKG[a]**	**SSSL[b]**	**ESV[b]**	**Result**	**Qual**	**>BKG**	**>SSSL**	**>ESV**	**Result**	**Qual**	**>BKG**	**>SSSL**	**>ESV**	**Result**	**Qual**	**>BKG**	**>SSSL**	**>ESV**
SEMIVOLATILE ORGANIC COMPOUNDS																			
2-Methylnaphthalene	mg/kg	NA	1.55E+02	NA	4.30E-02	J				ND					ND				
Acenaphthylene	mg/kg	8.91E-01	4.63E+02	6.82E+02	1.30E-01	J				5.80E-02	J				ND				
Anthracene	mg/kg	9.35E-01	2.33E+03	1.00E-01	8.70E-02	J				ND					ND				
Benzo(a)anthracene	mg/kg	1.19E+00	8.51E-01	5.21E+00	1.20E-01	J				4.40E-02	J				ND				
Benzo(a)pyrene	mg/kg	1.42E+00	8.51E-02	1.00E-01	2.10E-01	J		YES	YES	8.90E-02	J		YES		ND				
Benzo(b)fluoranthene	mg/kg	1.66E+00	8.51E-01	5.98E+01	3.00E-01	J				9.70E-02	J				ND				
Benzo(ghi)perylene	mg/kg	9.55E-01	2.32E+02	1.19E+02	5.80E-02	J				9.80E-02	J				ND				
Benzo(k)fluoranthene	mg/kg	1.45E+00	8.51E+00	1.48E+02	2.00E-01	J				7.80E-02	J				ND				
Carbazole	mg/kg	NA	3.11E+01	NA	5.00E-02	J				ND					ND				
Chrysene	mg/kg	1.40E+00	8.61E+01	4.73E+00	1.60E-01	J				6.70E-02	J				ND				
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	2.00E+02	ND					5.50E-02	B				4.90E-02	B			
Dibenz(a,h)anthracene	mg/kg	7.20E-01	8.61E-02	1.84E+01	ND					ND					ND				
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	1.10E-01	J			YES	ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	9.37E-01	8.51E-01	1.09E+02	7.50E-02	J				8.10E-02	J				ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	2.60E-02					ND					ND				
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	1.10E-01	J			YES	5.10E-02	J				ND				
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	ND					8.30E-02	B				1.00E-01	B			

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, concentration listed is the background screening value for soils adjacent to asphalt as given in IT Corporation (2000), *Final Human Hea and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama* , July.

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

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

Table 5-2

Subsurface Soil Analytical Results
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Parcel				PPMP-174				PPMP-174				PPMP-174				PPMP-174			
Sample Location				PPMP-174-GP01				PPMP-174-GP02				PPMP-174-GP03				PPMP-174-GP04			
Sample Number				KU0002				KU0004				KU0008				KU0010			
Sample Date				29-Jan-99				29-Jan-99				14-Jan-99				14-Jan-99			
Sample Depth (Feet)				9-12				6-9				1-3				6-9			
Parameter	**Units**	**BKG[a]**	**SSSL[b]**	**Result**	**Qual**	**>BKG**	**>SSSL**	**Result**	**Qual**	**>BKG**	**>SSSL**	**Result**	**Qual**	**>BKG**	**>SSSL**	**Result**	**Qual**	**>BKG**	**>SSSL**
METALS																			
Aluminum	mg/kg	1.36E+04	7.80E+03	1.51E+04		YES	YES	9.83E+03			YES	1.48E+04		YES	YES	7.38E+03			
Arsenic	mg/kg	1.83E+01	4.26E-01	4.50E+00			YES	4.80E+00			YES	5.30E+00			YES	6.30E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	8.15E+01				6.64E+01				8.36E+01				6.32E+01			
Beryllium	mg/kg	8.60E-01	9.60E+00	1.10E+00		YES		9.70E-01		YES		1.40E+00		YES		1.10E+00		YES	
Calcium	mg/kg	6.37E+02	NA	1.38E+03		YES		1.03E+03		YES		1.44E+04		YES		6.29E+02			
Chromium	mg/kg	3.83E+01	2.32E+01	1.55E+01	J			1.30E+01	J			2.60E+01			YES	1.62E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	1.57E+01				4.00E+00	J			ND				ND			
Copper	mg/kg	1.94E+01	3.13E+02	6.59E+01		YES		1.95E+01		YES		1.88E+01				1.42E+01			
Iron	mg/kg	4.48E+04	2.34E+03	3.98E+04			YES	2.70E+04			YES	3.47E+04			YES	4.16E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.98E+01	J			1.24E+01	J			1.49E+01				1.19E+01			
Magnesium	mg/kg	7.66E+02	NA	7.05E+03	J	YES		2.87E+03	J	YES		3.35E+03		YES		1.03E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	2.58E+02	J			3.50E+01	J			2.57E+02				7.44E+02			YES
Mercury	mg/kg	7.00E-02	2.33E+00	3.40E-02	J			2.50E-02	J			5.70E-02				3.20E-02	J		
Nickel	mg/kg	1.29E+01	1.54E+02	3.84E+01		YES		1.39E+01		YES		7.40E+00				1.43E+01		YES	
Potassium	mg/kg	7.11E+02	NA	5.54E+02	J			3.85E+02	J			9.92E+02		YES		2.75E+02	J		
Selenium	mg/kg	4.70E-01	3.91E+01	2.40E+00		YES		8.50E-01		YES		1.70E+00		YES		1.70E+00		YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				2.20E+00		YES		2.60E+00		YES	
Sodium	mg/kg	7.02E+02	NA	1.09E+02	B			8.16E+01	B			1.23E+02	J			5.44E+01	J		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				4.30E-01	B			ND				ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	2.57E+01				3.31E+01				1.80E+01				ND			
Zinc	mg/kg	3.49E+01	2.34E+03	1.33E+02	J	YES		4.63E+01	J	YES		3.22E+01				3.52E+01		YES	
VOLATILE ORGANIC COMPOUNDS																			
Acetone	mg/kg	NA	7.76E+02	3.40E-02	J			3.80E-01	B			1.30E-01	J			1.80E+00	B		
Bromomethane	mg/kg	NA	1.09E+01	ND				ND				2.20E-03	B			1.80E-03	B		
Methylene chloride	mg/kg	NA	8.41E+01	3.00E-03	B			3.30E-03	B			3.40E-03	B			3.20E-03	B		
SEMIVOLATILE ORGANIC COMPOUNDS																			
Di-n-butyl phthalate	mg/kg	NA	7.80E+02	ND				ND				6.70E-02	B			4.90E-02	B		
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	ND				6.90E-02	B			8.20E-02	B			2.00E-01	B		

Table 5-2

Subsurface Soil Analytical Results
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
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.

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

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

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

mg/kg - Milligrams per kilogram

NA - Not available

ND - Not detected

Qual - Data validation qualifier

Table 5-3

Groundwater Analytical Results
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date				PPMP-174 PPMP-174-GP03 KU3001 24-Feb-99				PPMP-174 PPMP-174-GP04 KU3004 24-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	7.81E-02	J			9.16E-02	J		
Arsenic	mg/L	1.78E-02	4.00E-05	3.40E-03	J		YES	ND			
Barium	mg/L	1.27E-01	1.10E-01	3.72E-02	J			2.72E-02	J		
Calcium	mg/L	5.65E+01	NA	1.99E+02		YES		1.20E+02		YES	
Iron	mg/L	7.04E+00	4.69E-01	1.12E+01		YES	YES	1.06E+00			YES
Magnesium	mg/L	2.13E+01	NA	1.80E+02		YES		1.03E+02		YES	
Manganese	mg/L	5.81E-01	7.35E-02	7.04E+00		YES	YES	8.70E+00		YES	YES
Mercury	mg/L	NA	4.60E-04	ND				6.30E-05	J		
Potassium	mg/L	7.20E+00	NA	9.52E-01	B			1.19E+00	B		
Sodium	mg/L	1.48E+01	NA	7.38E+01		YES		5.88E+01		YES	
VOLATILE ORGANIC COMPOUNDS											
1,2,3-Trichlorobenzene	mg/L	NA	1.32E-03	ND				3.00E-04	B		
1,2,4-Trichlorobenzene	mg/L	NA	1.35E-02	ND				2.00E-04	B		
Acetone	mg/L	NA	1.56E-01	ND				1.40E-03	B		
Naphthalene	mg/L	NA	3.00E-03	ND				5.70E-04	B		

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 level (SSSL) as given in IT Corporation (2000), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama,* July.

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

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

mg/L - Milligrams per liter

NA - Not available

ND - Not detected

Qual - Data validation qualifier

Table 5-4

Surface Water Analytical Results
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date					PPMP-174 PPMP-174-SW/SD01 KU2001 27-Jan-99					PPMP-174 PPMP-174-SW/SD02 KU2004 8-Feb-99				
Parameter	**Units**	**BKG[a]**	**SSSL[b]**	**ESV[b]**	**Result**	**Qual**	**>BKG**	**>SSSL**	**>ESV**	**Result**	**Qual**	**>BKG**	**>SSSL**	**>ESV**
METALS														
Aluminum	mg/L	5.26E+00	1.53E+01	8.70E-02	3.70E-01				YES	7.21E-02	B			
Barium	mg/L	7.53E-02	1.10E+00	3.90E-03	2.90E-02	J			YES	3.71E-02	J			YES
Calcium	mg/L	2.52E+01	NA	1.16E+02	4.80E+01		YES			9.52E+01		YES		
Iron	mg/L	1.96E+01	4.70E+00	1.00E+00	4.10E-01					1.01E-01	B			
Magnesium	mg/L	1.10E+01	NA	8.20E+01	1.30E+01		YES			5.43E+01		YES		
Manganese	mg/L	5.65E-01	6.40E-01	8.00E-02	4.13E-02					9.62E-02				YES
Mercury	mg/L	NA	4.25E-03	1.00E-05	4.60E-05	J			YES	4.90E-05	B			YES
Potassium	mg/L	2.56E+00	NA	5.30E+01	1.70E+00	J				1.47E+00	B			
Sodium	mg/L	3.44E+00	NA	6.80E+02	3.26E+00	J				1.76E+01		YES		
Zinc	mg/L	4.03E-02	4.65E+00	5.89E-02	6.88E-02	J	YES		YES	ND				
VOLATILE ORGANIC COMPOUNDS														
Acetone	mg/L	NA	1.57E+00	7.80E+01	5.50E-03	J				2.10E-03	B			
Methylene chloride	mg/L	NA	1.42E-01	1.93E+00	8.00E-04	B				ND				

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] Recreational site user human health site-specific screening level (SSSL) and ecological screening value (ESV) as given in IT Corporation (2000), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama,* July.

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

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

mg/L - Milligrams per Liter

NA - Not available

ND - Not detected

Qual - Data validation qualifier

Table 5-5

Sediment Analytical Results
Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					PPMP-174 PPMP-174-SW/SD01 KU1001 27-Jan-99 0-0.5					PPMP-174 PPMP-174-SW/SD02 KU1002 8-Feb-99 0-0.5				
Parameter	**Units**	**BKG[a]**	**SSSL[b]**	**ESV[b]**	**Result**	**Qual**	**>BKG**	**>SSSL**	**>ESV**	**Result**	**Qual**	**>BKG**	**>SSSL**	**>ESV**
METALS														
Aluminum	mg/kg	8.59E+03	1.15E+06	NA	6.54E+03					3.06E+03				
Arsenic	mg/kg	1.13E+01	5.58E+01	7.24E+00	7.80E+00				YES	2.80E+00				
Barium	mg/kg	9.89E+01	8.36E+04	NA	2.59E+01					1.45E+01	J			
Beryllium	mg/kg	9.70E-01	1.50E+02	NA	7.40E-01					2.50E-01	J			
Calcium	mg/kg	1.11E+03	NA	NA	1.17E+03		YES			1.15E+04		YES		
Chromium	mg/kg	3.12E+01	2.79E+03	5.23E+01	3.38E+01		YES			8.60E+00				
Cobalt	mg/kg	1.10E+01	6.72E+04	5.00E+01	4.10E+00	J				2.30E+00	J			
Copper	mg/kg	1.71E+01	4.74E+04	1.87E+01	1.68E+01					8.90E+00				
Iron	mg/kg	3.53E+04	3.59E+05	NA	3.78E+04		YES			1.00E+04				
Lead	mg/kg	3.78E+01	4.00E+02	3.02E+01	1.83E+01					9.90E+00				
Magnesium	mg/kg	9.06E+02	NA	NA	1.68E+03		YES			6.52E+03		YES		
Manganese	mg/kg	7.12E+02	4.38E+04	NA	3.32E+02					8.61E+01				
Mercury	mg/kg	1.10E-01	2.99E+02	1.30E-01	1.90E-02	J				2.40E-02	B			
Nickel	mg/kg	1.30E+01	1.76E+04	1.59E+01	1.01E+01					4.60E+00	J			
Potassium	mg/kg	1.01E+03	NA	NA	3.29E+02	J				1.75E+02	J			
Selenium	mg/kg	7.20E-01	5.96E+03	NA	2.20E+00		YES			6.50E-01				
Sodium	mg/kg	6.92E+02	NA	NA	9.10E+01	B				5.82E+01	B			
Vanadium	mg/kg	4.09E+01	4.83E+03	NA	3.19E+01					1.18E+01				
Zinc	mg/kg	5.27E+01	3.44E+05	1.24E+02	7.77E+01		YES			3.63E+01				
VOLATILE ORGANIC COMPOUNDS														
Methylene chloride	mg/kg	NA	9.84E+03	1.26E+00	3.10E-03	B				6.50E-03	B			

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] Recreational site user human health site-specific screening level (SSSL) and ecological screening value (ESV) as given in IT Corporation (2000), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama,* July.

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

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

mg/kg - Milligrams per kilogram

NA - Not available

ND - Not detected

Qual - Data validation qualifier

associated laboratory or field blank sample. The remaining analytical results were flagged with a "J" data qualifier, indicating that the results were greater than the method detection limit but less than the reporting limit.

The VOC concentrations in surface and depositional soils were below SSSLs and ESVs.

Semivolatile Organic Compounds. Seventeen SVOCs, including thirteen PAH compounds, were detected in surface and depositional soil samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). The di-n-butyl phthalate results and three of the four bis(2-ethylhexyl)phthalate results were flagged with a "B" data qualifier, signifying that these compounds were also detected in an associated laboratory or field blank sample. The majority of the remaining results were flagged with a "J" data qualifier .

The concentrations of three PAH compounds (benzo[a]pyrene, fluoranthene, and pyrene) exceeded SSSLs and/or ESVs but were below PAH background values for soils adjacent to asphalt.

5.2 Subsurface Soil Analytical Results

Four subsurface soil samples were collected for chemical analysis at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). Subsurface soil samples were collected at depths greater than 1 foot bgs at the locations shown on Figure 3-1. Analytical results were compared to residential human health SSSLs and metals background screening values, as presented in Table 5-2.

Metals. Twenty-one metals were detected in subsurface soil samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). The concentrations of five metals (aluminum, arsenic, chromium, iron, and manganese) exceeded SSSLs. Of these metals, only aluminum at two locations (PPMP-174-GP01 and PPMP-174-GP03) also exceeded its background concentration. However, the aluminum results were within the range of background values determined by SAIC (1998) (Appendix H).

Volatile Organic Compounds. Three VOCs (acetone, bromomethane, and methylene chloride) were detected in subsurface soil samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). The bromomethane results, methylene chloride results, and two of the four acetone results were flagged with a "B" data qualifier, signifying that these compounds were also detected in an associated laboratory or field blank sample. The acetone results at PPMP-177-GP01 and PPMP-177-GP03 were flagged with a "J"

data qualifier, indicating that the result was greater than the method detection limit but less than the reporting limit.

The VOC concentrations in subsurface soils were below SSSLs.

Semivolatile Organic Compounds. Two SVOCs (di-n-butyl phthalate and bis[2-ethylhexyl]phthalate) were detected in subsurface soil samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). The SVOC results were flagged with a "B" data qualifier, signifying that these compounds were also detected in an associated laboratory or field blank sample.

The di-n-butyl phthalate and bis(2-ethylhexyl)phthalate concentrations were below SSSLs.

5.3 Groundwater Analytical Results

Two temporary monitoring wells were sampled at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), at the locations shown on Figure 3-1. Analytical results were compared to residential human health SSSLs and metals background screening values, as presented in Table 5-3.

Metals. Ten metals were detected in groundwater samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). The concentrations of three metals (arsenic, iron, and manganese) exceeded SSSLs. Of these metals, iron (PPMP-174-GP03) and manganese (both sample locations) also exceeded their respective background concentrations. However, the iron and manganese results were within the range of background values determined by SAIC (1998) (Appendix H).

Volatile Organic Compounds. Four VOCs (1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, acetone, and naphthalene) were detected in the groundwater sample collected at PPMP-174-GP04. The VOC results were flagged a "B" data qualifier, signifying that these compounds were also detected in an associated laboratory or field blank sample.

The VOC concentrations in groundwater were below SSSLs.

Semivolatile Organic Compounds. SVOCs were not detected in the groundwater samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7).

5.4 Surface Water Analytical Results

Two surface water samples were collected for chemical analysis at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). The surface water sample locations are shown on Figure 3-1. Analytical results were compared to recreational site user human health SSSLs, ESVs, and metals background screening values, as presented in Table 5-4.

Metals. Ten metals were detected in surface water samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). The metals concentrations in surface water were below SSSLs. The concentrations of five metals (aluminum, barium, manganese, mercury, and zinc) exceeded ESVs. Of these metals, only zinc at PPMP-174-SW/SD01 also exceeded its respective background concentration. However, the zinc result was within the range of background values determined by SAIC (1998) (Appendix H).

Volatile Organic Compounds. Two VOCs (acetone and methylene chloride) were detected in surface water samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). Acetone at PPMP-174-SW/SD02 and methylene chloride at PPMP-174-SW/SD01 were flagged with a "B" data qualifier, signifying that these compounds were also detected in an associated laboratory or field blank sample. Acetone and methylene chloride are common laboratory contaminants.

The acetone and methylene chloride results were below SSSLs and ESVs.

Semivolatile Organic Compounds. SVOCs were not detected in the surface water samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7).

5.5 Sediment Analytical Results

Two sediment samples were collected for chemical and physical analyses at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). The samples were collected from the upper 0.5-foot of sediment at the sample locations shown on Figure 3-1. Analytical results were compared to recreational site user human health SSSLs, ESVs, and metals background screening values, as presented in Table 5-5.

Metals. Nineteen metals were detected in the sediment samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7). The metals concentrations in sediments were below SSSLs. The arsenic concentration exceeded the ESV at one location (PPMP-174-SW/SD01) but was below its background concentration.

Volatile Organic Compounds. Methylene chloride was detected in both of the sediment samples collected at the site. The methylene chloride results were flagged with a "B" data qualifier, signifying that methylene chloride was also detected in an associated laboratory or field blank sample. Methylene chloride is a common laboratory contaminant. The methylene chloride concentrations were below the SSSL and ESV.

Semivolatile Organic Compounds. SVOCs were not detected in the sediment samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7).

Total Organic Carbon. The sediment samples were analyzed for TOC content. TOC concentrations were 6,890 mg/kg to 9,390 mg/kg, as summarized in Appendix E.

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

6.0 Summary and Conclusions and Recommendations

IT, under contract to USACE, completed an SI at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), at FTMC in Calhoun County, Alabama. The SI was conducted to determine whether chemical constituents are present at the site at concentrations that present an unacceptable risk to human health or the environment. The SI at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), consisted of the sampling and analysis of four surface soil samples, one depositional soil sample, four subsurface soil samples, two groundwater samples, two surface water samples, and two sediment samples. In addition, two temporary monitoring wells were installed in the saturated zone to facilitate groundwater sample collection and provide site-specific geological and hydrogeological characterization information.

Chemical analyses of samples collected at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), indicate that metals, VOCs, and SVOCs were detected in the environmental media sampled. Analytical results 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. Additionally, metal concentrations exceeding SSSLs and ESVs were compared to media-specific background screening values (SAIC, 1998) and PAH concentrations exceeding SSSLs and ESVs in surface and depositional soils were compared to PAH background screening values (IT, 2000b).

The potential threat to human receptors is expected to be low. Although the site is projected to be transferred to the Alabama Army National Guard, the soils and groundwater data were screened against residential human health SSSLs to evaluate the site for possible unrestricted land reuse. In soils, the concentrations of aluminum (two subsurface soil samples), arsenic (two surface/depositional soil samples), and iron (two surface/depositional soil samples) exceeded SSSLs and their respective background concentrations. In groundwater, the concentrations of iron and manganese exceeded SSSLs and their respective background concentrations. However, the concentrations of these metals were within the range of background values determined by SAIC (1998) and do not pose an unacceptable risk to human health. The SVOC benzo(a)pyrene was detected in four surface/depositional soil samples at concentrations exceeding the SSSL but below the PAH background value. VOC concentrations in site media were below SSSLs.

Five metals (arsenic, iron, selenium, silver, and zinc) were detected in site media at concentrations exceeding ESVs and their respective background concentrations. However, with the exception of silver (2.6 mg/kg) at one surface soil sample location, and selenium (1.4 mg/kg to 2.2 mg/kg) at four locations, the concentrations of these metals were within the range of background values determined by the SAIC (1998). Three PAH compounds were detected in surface/depositional soil samples at concentrations exceeding ESVs but below PAH background values. The site is located within a well-developed area of the Main Post, consisting of buildings, gravel-covered areas, and roads, interspersed with limited grassy areas. Viable ecological habitat is presently limited and is not expected to increase in the future land use scenario. Based on the low levels of metals, VOCs, and SVOCs detected and the future land use of this site, the potential threat to ecological receptors is expected to be low.

Based on the results of the SI, past operations at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7), do not appear to have adversely impacted the environment. The metals and chemical constituents detected in site media do not pose an unacceptable risk to human health and the environment. Therefore, IT recommends “No Further Action” and unrestricted land reuse at the Small Weapons Storage and Cleaning Compound, Building 1378, Parcel 174(7).

7.0 References

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ATTACHMENT 1

LIST OF ABBREVIATIONS AND ACRONYMS

List of Abbreviations and Acronyms

2,4-D	2,4-dichlorophenoxyacetic acid
2,4,5-T	2,4,5-trichlorophenoxyacetic acid
2,4,5-TP	silvex
3D	3D International Environmental Group
Abs	skin absorption
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
AHA	ammunition holding area
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
BEHP	bis(2-ethylhexyl)phthalate
BFB	bromofluorobenzene
BG	Bacillus globigii
bgs	below ground surface
BHC	betahexachlorocyclohexane
bkg	background
bls	below land surface
BOD	biological oxygen demand
BRAC	Base Realignment and Closure
Braun	Braun Intertec Corporation
BTEX	benzene, toluene, ethyl benzene, and xylenes
BTOC	below top of casing
BW	biological warfare
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
CG	carbonyl chloride (phosgene)
CFC	chlorofluorocarbon
ch	inorganic clays of high plasticity
CHPPM	U.S. Army Center for Health Promotion and Preventive Medicine
CK	cyanogen chloride
cl	inorganic clays of low to medium plasticity
Cl.	chlorinated
CLP	Contract Laboratory Program
CN	chloroacetophenone
CNB	chloroacetophenone, benzene, and carbon tetrachloride
CNS	chloroacetophenone, chloropicrin, and chloroform
Co-60	cobalt-60
COC	chain of custody
COE	Corps of Engineers
Con	skin or eye contact
CRL	certified reporting limit
CRZ	contamination reduction zone
Cs-137	cesium-137
CS	ortho-chlorobenzylidene-malononitrile
CSEM	conceptual site exposure model
ctr.	container
CWA	chemical warfare agent
CWM	chemical warfare material; clear, wide mouth
CX	dichloroformoxime
D	duplicate; dilution
DANC	decontamination agent, non-corrosive
ºC	degrees Celsius
ºF	degrees Fahrenheit
DCE	dichloroethene
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethene
DDT	dichlorodiphenyltrichloroethane
DEH	Directorate of Engineering and Housing
DEP	depositional soil
DI	deionized
DIMP	di-isopropylmethylphosphonate
DMMP	dimethylmethylphosphonate
DOD	U.S. Department of Defense
DP	direct-push
DPDO	Defense Property Disposal Office
DPT	direct-push technology
DQO	data quality objective
DRMO	Defense Reutilization and Marketing Office
DRO	diesel range organics
DS	deep (subsurface) soil
DS2	Decontamination Solution Number 2
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 ordnance disposal
EODT	explosive ordnance disposal team
EPA	U.S. Environmental Protection Agency
EPC	exposure point concentration
EPIC	Environmental Photographic Interpretation Center
ER	equipment rinsate
ESE	Environmental Science and Engineering, Inc.
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
Foster Wheeler	Foster Wheeler Environmental Corporation
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
GSA	General Services Administration
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
ISCP	Installation Spill Contingency Plan
IT	IT Corporation
ITEMS	IT Environmental Management System ™
'J'	estimated concentration
JeB2	Jefferson gravelly fine sandy loam, 2 to 6 percent slopes, eroded
JeC2	Jefferson gravelly fine sandy loam, 6 to 10 percent slopes, eroded
JfB	Jefferson stony fine sandy loam, 0 to 10 percent slopes have strong slopes
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; northeast
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
ORP	oxidation-reduction potential
OSHA	Occupational Safety and Health Administration
OWS	oil/water separator
oz	ounce
PAH	polynuclear aromatic hydrocarbon
Parsons	Parsons Engineering Science, Inc.
Pb	lead
PCB	polychlorinated biphenyl
PCE	perchloroethene
PCP	pentachlorophenol
PDS	Personnel Decontamination Station
PEL	permissible exposure limit
Pest.	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; resample
RCRA	Resource Conservation and Recovery Act
RDX	cyclonite
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, Inc.
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
SM	Serratia marcescens
SOP	standard operating procedure
sp	poorly graded sands; gravelly sands
SP	sump pump
Sr-90	strontium-90
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
TCA	trichloroethane
TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin
TCDF	tetrachlorodibenzofurans
TCE	trichloroethene
TCL	target compound list
TCLP	toxicity characteristic leaching procedure
TDGCL	thiodiglycol
TDGCLA	thiodiglycol chloroacetic acid
TERC	Total Environmental Restoration Contract
TIC	tentatively identified compound
TLV	threshold limit value
TN	Tennessee
TOC	top of casing; total organic carbon
TPH	total petroleum hydrocarbons
TRADOC	U.S. Army Training and Doctrine Command
TRPH	total recoverable petroleum hydrocarbons
TWA	time weighted average
UCL	upper confidence limit
UCR	upper certified range
'U'	not detected above reporting limit
USACE	U.S. Army Corps of Engineers
USACHPPM	U.S. Army Center for Health Promotion and Preventive Medicine
USAEC	U.S. Army Environmental Center
USAEHA	U.S. Army Environmental Hygiene Agency
USACMLS	U.S. Army Chemical School
USAMPS	U.S. Army Military Police School
USATEU	U.S. Army Technical Escort Unit
USATHAMA	U.S. Army Toxic and Hazardous Material Agency
USCS	Unified Soil Classification System
USDA	U.S. Department of Agriculture
USEPA	U.S. Environmental Protection Agency
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-[diisopropylaminoethyl]-methylphosphonothiolate)
Weston	Roy F. Weston, Inc.
WP	installation-wide work plan
WS	watershed
WSA	Watershed Screening Assessment
WWI	World War I
WWII	World War II
XRF	x-ray fluorescence
yd^3	cubic yards

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

N/A – Not analyzed

ND – Not detected

Boolean Codes

- LT – Less than the certified reporting limit

Flagging Codes

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

Qualifiers

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

APPENDIX A

SAMPLE COLLECTION LOGS
AND
ANALYSIS REQUEST/CHAIN-OF-CUSTODY RECORDS

SAMPLE COLLECTION LOGS

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 174-030999-QSK

Site: Small Weapons Storage and Cleaning Compo
Location Code: PPMP-174-DEP01
Sample Number: KU0011
Sample Name: PPMP-174-DEP01-DEP-KU0011-REG
Sampling Method: HA

Collection Date: 3-9-99
Collection Time: 1100

Start Depth: Ø
End Depth: 1

Sample Team: 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: SW/SD TO DEPØ1

Sketch Location:

Logged BY / Date: _____

Reviewed BY / Date: 3/10/99

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number:

Site: Small Weapons Storage and Cleaning Compo
Location Code: PPMP-174-GP01
Sample Number: KU0001
Sample Name: PPMP-174-GP01-SS-KU0001-REG
Sampling Method: HA

Collection Date: 1-29-99
Collection Time: 1220
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: DKoen 1-29-99 *Reviewed BY / Date:*

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: Small Weapons Storage and Cleaning Compo
Location Code: PPMP-174-GP01
Sample Number: KU0002
Sample Name: PPMP-174-GP01-DS-KU0002-REG
Sampling Method: DP

Collection Date: 1-29-99
Collection Time: 1235

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: 12' +

Sketch Location:

Logged BY / Date: DeKoe 1-29-99 *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: Small Weapons Storage and Cleaning Compo
Location Code: PPMP-174-GP02
Sample Number: KU0003
Sample Name: PPMP-174-GP02-SS-KU0003-REG
Sampling Method: HA

Collection Date: 1-29-99
Collection Time: 1300

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: Under Asphalt

Sketch Location:

Logged BY / Date: DeKoa 1-29-99 *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: Small Weapons Storage and Cleaning Compo
Location Code: PPMP-174-GP02
Sample Number: KU0003-MS
Sample Name: PPMP-174-GP02-SS-KU0003-MS
Sampling Method: HA

Collection Date: 1-29-99
Collection Time: 1300
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: [illegible] 1-29-99 *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

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

RFA / COC Number: _____

Site: **Small Weapons Storage and Cleaning Compo**
Location Code: **PPMP-174-GP02**
Sample Number: **KU0003-MSD**
Sample Name: **PPMP-174-GP02-SS-KU0003-MSD**
Sampling Method: **HA**

Collection Date: 1-29-99
Collection Time: 1300

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: D.K. 1-29-99 *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: **Small Weapons Storage and Cleaning Compo**
Location Code: **PPMP-174-GP02**
Sample Number: **KU0004**
Sample Name: **PPMP-174-GP02-DS-KU0004-REG**
Sampling Method: **DP**

Collection Date: 1-29-99
Collection Time: 1310
Start Depth: 6
End Depth: 9

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 @9

Sketch Location:

Logged BY / Date: DRKoe 1-29-99 *Reviewed BY / Date:* _____

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

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

RFA / COC Number: _____

Site: **Small Weapons Storage and Cleaning Compo**
Location Code: **PPMP-174-GP03**
Sample Number: **KU0005**
Sample Name: **PPMP-174-GP03-SS-KU0005-REG**
Sampling Method: **HA**

Collection Date: 1-14-99
Collection Time: 0835

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: SS Hand Auger 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: _____

Site: **Small Weapons Storage and Cleaning Compo**
Location Code: **PPMP-174-GP03**
Sample Number: **KU0006**
Sample Name: **PPMP-174-GP03-SS-KU0006-FD**
Sampling Method: **HA**

Collection Date: 1-14-99
Collection Time: 0835

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: _____

Site: Small Weapons Storage and Cleaning Compo
Location Code: PPMP-174-GP03
Sample Number: KU0008
Sample Name: PPMP-174-GP03-DS-KU0008-REG
Sampling Method: DP

Collection Date: 1-14-99
Collection Time: 0900
Start Depth: 1
End Depth: 3

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: Refusal @ 9

Sketch Location:

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

INTERNATIONAL TECHNOLOGY CORPORATION

ENTERED 4/12/99 log SM

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 174-022499-QSK

Site: Small Weapons Storage and Cleaning Compo
Location Code: PPMP-174-~~GP01~~ GP03
Sample Number: KU3001
Sample Name: PPMP-174-~~GP01~~ GP03-GW-KU3001-REG
Sampling Method: ~~PP~~ SP

Collection Date: 02/24/99
Collection Time: 0900
Start Depth: NA
End Depth: NA
Sample Team: J. Brown, C. Short

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)
	0813	6.13	67.7	6.29	615	~~08~~ 815.5	2.94	11.37	2
	0819	6.56	7.4	6.68	2250	437.6	1.63	14.37	3
	0828	6.85	-11.7	6.73	2280	48.3	1.04	14.96	6
	0833	7.00	-16.6	6.73	2281	38.3	0.92	15.14	9
	0841	7.10	-19.5	6.73	2282	23.4	0.92	14.94	12
	0849	7.10	-21.9	6.74	~~22.8~~ 2283	43.0	0.90	15.23	15
Sample:									

→ VOCs pH=3
Metals preserved to pH<2
FB/FD taken from this well, GP03.

Logged BY / Date: [signature] 02/24/99
Reviewed BY / Date: [signature] 2/25/99

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 174-022499-QS

Site: Small Weapons Storage and Cleaning Compo
Location Code: PPMP-174-~~GP01~~ ~~GP04~~ GP03
Sample Number: KU3002
Sample Name: PPMP-174-~~GP01-~~GW-KU3002-FD
Sampling Method: ~~PP~~ SP GP03

Collection Date: 02/24/99
Collection Time: 0900
Start Depth: NA
End Depth: NA
Sample Team: J. Brown, C. Short

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 KU3001-REG log.							
Sample:									

Logged BY / Date: 02/24/99

Reviewed BY / Date: 2/25/99

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 174-022499-SADL

Site: Small Weapons Storage and Cleaning Compo
Location Code: PPMP-174-~~GP01~~ GP03
Sample Number: KU3003
Sample Name: PPMP-174-~~GP01~~-GW-KU3003-FS
Sampling Method: ~~PP~~ SP GP03

Collection Date: 02/24/99
Collection Time: 0900
Start Depth: NA
End Depth: NA
Sample Team: J. Brown, C. Short

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 KU3001-12EG log.							
Sample:									

→ VOCs pH = 3
Metals preserved to < 2.
→ Taken from GP03.

Logged BY / Date: [signature] 02/24/99
Reviewed BY / Date: [signature] 2/25/99

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: _____

Site: Small Weapons Storage and Cleaning Compo
Location Code: PPMP-174-GP04
Sample Number: KU0009
Sample Name: PPMP-174-GP04-SS-KU0009-REG
Sampling Method: HA

Collection Date: 1-14-99
Collection Time: 0930
Start Depth: 0
End Depth: 1

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: S.S. hand Auger 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: _____

Site: Small Weapons Storage and Cleaning Compo
Location Code: PPMP-174-GP04
Sample Number: KU0010
Sample Name: PPMP-174-GP04-DS-KU0010-REG
Sampling Method: DP

Collection Date: 1-14-99
Collection Time: 0940
Start Depth: 6
End Depth: 9

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 @ 9

Sketch Location:

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

INTERNATIONAL TECHNOLOGY CORPORATION

ENTERED 4/12/99 by SM

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 174-022499-0516

Site: Small Weapons Storage and Cleaning Compo
Location Code: PPMP-174-~~GP02~~ GP04
Sample Number: KU3004
Sample Name: PPMP-174-~~GP02~~-GW-KU3004-REG
Sampling Method: ~~PP~~ GP GP04

Collection Date: 02/24/99
Collection Time: 0955
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)
	0934	5.55	490.5	7.03	1541	40.0	5.75	11.98	1
	0938	5.70	243.2	6.80	1518	33.5	4.45	14.44	2
	0946	6.90	131.2	6.81	1535	14.1	3.83	15.65	4.5
	0951	7.55	96.0	6.77	1528	10.4	2.43	15.75	6.0
Sample:									

VOCs and Metals preserved to pH<2

This sample was from GP04.

Logged BY / Date: 02/24/99 *Reviewed BY / Date:* 2/25/99

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 174-022499-QSK

Site: Small Weapons Storage and Cleaning Compo
Location Code: PPMP-174-~~GP02~~ GP04
Sample Number: KU3004-MS
Sample Name: PPMP-174-~~GP02~~ GP04-GW-KU3004-MS
Sampling Method: PP

Collection Date: 02/24/99
Collection Time: 0955
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 KU3004-REG log.							
Sample:									

Logged BY / Date: 02/24/99

Reviewed BY / Date: 2/25/99

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan
Manager: Jeanie Yacoub

RFA / COC Number: 174-022499-QSK

Site: Small Weapons Storage and Cleaning Compo
Location Code: PPMP-174-~~GP02~~ C P04
Sample Number: KU3004-MSD
Sample Name: PPMP-174-~~GP02~~ GW-KU3004-MSD
Sampling Method: PP G P04

Collection Date: 02/24/99
Collection Time: 0955
Start Depth: NA
End Depth: NA
Sample Team: J. Brown, C. Short

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 KU3004-REG							10
Sample:									

Logged BY / Date: 02/24/99 *Reviewed BY / Date:* 2/25/99

ENTERED 2655 520

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan

Manager: Jeanie Yacoub

RFA / COC Number:

Site: **Small Weapons Storage and Cleaning Comp**

Location Code: **PPMP-174-SW/SD01**

Sample Number: **KU2001**

Sample Name: **PPMP-174-SW/SD01-SW-KU2001-REG**

Sampling Method: **GRAB**

Collection Date: 1-27-99

Collection Time: 1230

Start Depth:

End Depth:

Sample Team: L. ROSA, A. GONZALEZ

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

Surface Water Parameters:	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)
	180	6.2	2.0	8.0	11.0	18.27

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:

Site: **Small Weapons Storage and Cleaning Comp**

Location Code: **PPMP-174-SW/SD01**

Sample Number: **KU2002**

Sample Name: **PPMP-174-SW/SD01-SW-KU2002-FD**

Sampling Method: **GRAB**

Collection Date: 1-27-99

Collection Time: 1230

Start Depth:

End Depth:

Sample Team: L. KOSA
A. GONZALEZ

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

Surface Water Parameters:	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)
		7.82	462.0	13.0	11.0	18.27

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan

Manager: Jeanie Yacoub

parcel 174

Site: **Small Weapons Storage and Cleaning Comp**

Location Code: **PPMP-174-SW/SD01**

Sample Number: **KU1001**

Sample Name: **PPMP-174-SW/SD01-SD-KU1001-REG**

Sampling Method: **HA**

RFA / COC Number:

Collection Date: 1-27-99

Collection Time: 1230

Start Depth: 0 ft

End Depth: 0.5 ft

Sample Team: L. ROSA, A. Gonzalez

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
TOC		C	1	4	oz	cwm
Grain		D	1	8	oz	cwm

Comments:

Sketch Location:

Logged BY / Date:

Reviewed BY / Date:

INTERNATIONAL TECHNOLOGY CORPORATION

ENTERED 4/8/99

Sample Collection Log

Project: 774645 Fort McClellan

Manager: Jeanie Yacoub

RFA / COC Number: 174-020899-05K

Site: **Small Weapons Storage and Cleaning Comp**

Location Code: **PPMP-174-SW/SD02**

Sample Number: **KU2004**

Sample Name: **PPMP-174-SW/SD02-SW-KU2004-REG**

Sampling Method: **GRAB**

Collection Date: 02/08/99

Collection Time: 1530

Start Depth: 0.0

End Depth: 0.5

Sample Team: A. Gonzalez, K. Arnold, 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

Surface Water Parameters:	Eh (mV)	pH (SU)	Conductivity (mS/cm)	Turbidity (NTU)	DissOxygen (ppm)	Temperature (C)
	217	6.65	.807	-.2	7.91	17.10

Comments:

Sketch Location:

Logged BY / Date: 02/08/99

Reviewed BY / Date: 2/9/99

INTERNATIONAL TECHNOLOGY CORPORATION

Sample Collection Log

Project: 774645 Fort McClellan

Manager: Jeanie Yacoub

RFA / COC Number: 174-020899-QSK

Site: **Small Weapons Storage and Cleaning Comp**

Location Code: **PPMP-174-SW/SD02**

Sample Number: **KU1002**

Sample Name: **PPMP-174-SW/SD02-SD-KU1002-REG**

Sampling Method: **HA**

Collection Date: 02/08/99

Collection Time: 1530

Start Depth: 0.0

End Depth: 0.5'

Sample Team: A. Gonzalez, K. Arnold, J. Brown

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
GRAIN SIZE	N	C	1	8	oz	CWM
TOC	N	D	1	4	oz	CWM

Comments:

Sketch Location:

Logged BY / Date: 02/08/99

Reviewed BY / Date: 2/9/99

CHAIN-OF-CUSTODY RECORDS

H9C100181

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 174-030999-QSK

Project Number: 774645

Project Name: Fort McClellan

Sample Coordinator: John W. Andrew

Turnaround Time: Normal

Samples Shipment Date: 10-MAR-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:

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

1. Relinquished By (Signature/Affiliation) ITCorp — Date: 3/10/99 Time: 0830
2. Relinquished By (Signature/Affiliation) — Date: 3 10 99 Time: 1350
3. Relinquished By (Signature/Affiliation) — Date: Time:

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

1. Received By (Signature/Affiliation) — Date: 3 10 99 Time: 0830
2. Received By (Signature/Affiliation) — Date: 3-10-99 Time: 13:50
3. Received By (Signature/Affiliation) — Date: Time:

Comments:

Recd at 22
Custody Seals Intact
JW 3-10-99

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
KU0011	PPMP-174-DEP01-DEP-KU0011-REG	09-MAR-99	11:00	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KU0011	PPMP-174-DEP01-DEP-KU0011-REG	09-MAR-99	11:00	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		

0046

Quote #25476

H9A300122

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 174-012999-QSK

Project Number: 774645

Project Name: Fort McClellan

Sample Coordinator: John W. Andrew

Turnaround Time: NORMAL

Samples Shipment Date: 29-JAN-99

Lab Destination: Quanterra Environmental Services - Knoxville

Lab Contact: John Reynolds

Project Contact: Randy McBride

Carrier/Waybill No.: Hand Delivered/Adrian Gonzalez PK917404

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 COD	Date: 01/29/99 Time: 1630	1. Received By (Signature/Affiliation) Adrian M Gonzalez IT	Date: 1/29/99 Time: 1630
2. Relinquished By (Signature/Affiliation) Adrian M Gonzalez IT	Date: 1/30/99 Time: 0940	2. Received By (Signature/Affiliation) Bryan Blomquist	Date: 1/30/99 Time: 0940
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 1-30-99

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
KU0001	PPMP-174-GP01-SS-KU0001-REG	29-JAN-99	12:20	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KU0001	PPMP-174-GP01-SS-KU0001-REG	29-JAN-99	12:20	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KU0002	PPMP-174-GP01-DS-KU0002-REG	29-JAN-99	12:35	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KU0002	PPMP-174-GP01-DS-KU0002-REG	29-JAN-99	12:35	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KU0003	PPMP-174-GP02-SS-KU0003-REG	29-JAN-99	13:00	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KU0003	PPMP-174-GP02-SS-KU0003-REG	29-JAN-99	13:00	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		

0068

H9A300122

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 174-012999-QSK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
KU0003-MS	PPMP-174-GP02-SS-KU0003-MS-MS	29-JAN-99	13:00	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KU0003-MS	PPMP-174-GP02-SS-KU0003-MS-MS	29-JAN-99	13:00	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KU0003-MSD	PPMP-174-GP02-SS-KU0003-MSD-MS	29-JAN-99	13:00	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KU0003-MSD	PPMP-174-GP02-SS-KU0003-MSD-MS	29-JAN-99	13:00	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KU0004	PPMP-174-GP02-DS-KU0004-REG	29-JAN-99	13:10	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KU0004	PPMP-174-GP02-DS-KU0004-REG	29-JAN-99	13:10	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		

0069

Quote# 25476

H9A150192

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE DOCUMENT NO.: 174-011499-OSK

PAGE 1 OF 1

Bill To: Duane Nielsen
IT Corporation

Project Name/No: Fort McClellan/774645
Sample Team Member: MR
Profit Center: N/A
Project Manager: USACE-Mobile (E. Pope)
Purchase Order No.: N/A
Required Report Date: Normal

Sample Shipment Date: 01/15/99
Laboratory Destination: Quanterra Laboratory - Knoxville
Laboratory Contact: Blaise Willis
Project Contact/Phone: John Andrew, IT (256-848-3499)
Carrier Waybill No.: QUALITY EXPRESS PK917401

Report To: Duane Nielsen
IT Corporation

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
KU0005 ✓	PPMP-174-GP03-SS-KU0005-REG	01/14/99 0835	3x5g EnCore	3x5g	4 deg C	VOCs 8260B		
			8 oz. CWM	1x8 oz.	4 deg C	SVOC 8270C		
			8 oz. CWM	1x8 oz.	4 deg C	METALS		
KU0006 ✓	PPMP-174-GP03-SS-KU0006 ~~REG~~ FD	01/14/99 835	3x5g EnCore	3x5g	4 deg C	VOCs 8260B		
			8 oz. CWM	1x8 oz.	4 deg C	SVOC 8270C		
			8 oz. CWM	1x8 oz.	4 deg C	METALS		
KU0008 ✓	PPMP-174-GP03-DS-KU0008-REG	01/14/99 0900	3x5g EnCore	3x5g	4 deg C	VOCs 8260B		
			8 oz. CWM	1x8 oz.	4 deg C	SVOC 8270C		
			8 oz. CWM	1x8 oz.	4 deg C	METALS		
KU0009 ✓	PPMP-174-GP04-SS-KU0009-REG	01/14/99 930	3x5g EnCore	3x5g	4 deg C	VOCs 8260B		
			8 oz. CWM	1x8 oz.	4 deg C	SVOC 8270C		
			8 oz. CWM	1x8 oz.	4 deg C	METALS	Recd at 2°C	
KU0010 ✓	PPMP-174-GP04-DS-KU0010-REG	01/14/99 0940	3x5g EnCore	3x5g	4 deg C	VOCs 8260B		
			8 oz. CWM	1x8 oz.	4 deg C	SVOC 8270C	Custody Seals Intact	
			8 oz. CWM	1x8 oz.	4 deg C	METALS	[illegible] 1-15-99	

Special Instructions: NONE

Possible Hazard Identification:
Non-haz: ___ Flammable: ___ Poison B: ___ Unknown: ✓

Sample Disposal:
Return to Client: ___ Disposal by Lab: ✓ Archive: ___

Turnaround Time:
Normal: ✓ Rush: ___

Level of QC Required:
I. ___ II. ___ III. ___ Project Specific: ___

1. Relinquished by: [signature] Date: 01/15/99 Time: 0830
2. Relinquished by: [signature] Date: 1 15 99 Time: 1415
3. Relinquished by: Date: Time:

1. Received by: [signature] Date: 1 15 99 Time: 0830
2. Received by: [signature] Date: 1-15-99 Time: 14:15
2. Received by: Date: Time:

Quote #25476

H9B250202

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 174-022499-QSK

Project Number: 774645

Project Name: Fort McClellan

Sample Coordinator: John W. Andrew

Turnaround Time: Normal

Samples Shipment Date: 25-FEB-99

Lab Destination: Quanterra Environmental Services - Knoxville

Lab Contact: John Reynolds

Project Contact: Randy McBride

Carrier/Waybill No.: Quality Express/ Courier PK917407

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)	Date: 2/25/99 Time: 0840	1. Received By (Signature/Affiliation)	Date: 2 25 99 Time: 0840
2. Relinquished By (Signature/Affiliation)	Date: 2 25 99 Time: 1320	2. Received By (Signature/Affiliation)	Date: 2/25/99 Time: 1320
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
022499-TB	FIELDQC-BW-022499-TB-TB	24-FEB-99	07:00	40 ml VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KU3001	PPMP-174-GP03-GW-KU3001-REG	24-FEB-99	09:00	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KU3001	PPMP-174-GP03-GW-KU3001-REG	24-FEB-99	09:00	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KU3001	PPMP-174-GP03-GW-KU3001-REG	24-FEB-99	09:00	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		
KU3002	PPMP-174-GP03-GW-KU3002-FD	24-FEB-99	09:00	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KU3002	PPMP-174-GP03-GW-KU3002-FD	24-FEB-99	09:00	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KU3002	PPMP-174-GP03-GW-KU3002-FD	24-FEB-99	09:00	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		
KU3004	PPMP-174-GP04-GW-KU3004-REG	24-FEB-99	09:55	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		

0059

H9B250202

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 174-022499-QSK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
KU3004	PPMP-174-GP04-GW-KU3004-REG	24-FEB-99	09:55	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		
KU3004	PPMP-174-GP04-GW-KU3004-REG	24-FEB-99	09:55	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KU3004-MS	PPMP-174-GP04-GW-KU3004-MS-MS	24-FEB-99	09:55	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		
KU3004-MS	PPMP-174-GP04-GW-KU3004-MS-MS	24-FEB-99	09:55	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KU3004-MS	PPMP-174-GP04-GW-KU3004-MS-MS	24-FEB-99	09:55	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KU3004-MSI	PPMP-174-GP04-GW-KU3004-MSD-MS	24-FEB-99	09:55	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KU3004-MSI	PPMP-174-GP04-GW-KU3004-MSD-MS	24-FEB-99	09:55	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KU3004-MSI	PPMP-174-GP04-GW-KU3004-MSD-MS	24-FEB-99	09:55	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		

0060

Quote # 25476

H9A280229

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 174-012799-QSK

Project Number: 774645

Project Name: Fort McClellan

Sample Coordinator: John W. Andrew

Turnaround Time: NORMAL

Samples Shipment Date: 28-JAN-99

Lab Destination: Quanterra Environmental Services - Knoxville

Lab Contact: John Reynolds

Project Contact: Randy McBride

Carrier/Waybill No.: Quality Express/ Courier PK917402

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)	Date: 01/28/99 Time: 0900	1. Received By (Signature/Affiliation)	Date: 1 28 99 Time: 0900
2. Relinquished By (Signature/Affiliation)	Date: 1 28 99 Time: 1430	2. Received By (Signature/Affiliation)	Date: 128-99 Time: 14:30
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 1-28-99

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
KU1001	PPMP-174-SW/SD01-SD-KU1001-REG	27-JAN-99	12:30	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KU1001	PPMP-174-SW/SD01-SD-KU1001-REG	27-JAN-99	12:30	8 oz CWM	1	None Required	Grain Size by ASTM D421/D422	N		
KU1001	PPMP-174-SW/SD01-SD-KU1001-REG	27-JAN-99	12:30	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KU2001	PPMP-174-SW/SD01-SW-KU2001-REG	27-JAN-99	12:30	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KU2001	PPMP-174-SW/SD01-SW-KU2001-REG	27-JAN-99	12:30	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KU2001	PPMP-174-SW/SD01-SW-KU2001-REG	27-JAN-99	12:30	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		pH<2
KU2002	PPMP-174-SW/SD01-SW-KU2002-FD	27-JAN-99	12:30	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KU2002	PPMP-174-SW/SD01-SW-KU2002-FD	27-JAN-99	12:30	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		

H9A280229

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 174-012799-QSK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
KU2002	PPMP-174-SW/SD01-SW-KU2002-FD	27-JAN-99	12:30	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		PH<2

H9B090160

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 174-020899-QSK

Project Number: 774645

Project Name: Fort McClellan

Sample Coordinator: John W. Andrew

Turnaround Time: Normal

Samples Shipment Date: 09-FEB-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:

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

1. Relinquished By (Signature/Affiliation) IT Corp — Date: 2/9/99 Time: 0830
2. Relinquished By (Signature/Affiliation) — Date: 2 9 99 Time: 1400
3. Relinquished By (Signature/Affiliation) — Date: Time:

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

1. Received By (Signature/Affiliation) — Date: 2 9 99 Time: 0832
2. Received By (Signature/Affiliation) — Date: 2-9-99 Time: 14:00
3. Received By (Signature/Affiliation) — Date: Time:

Comments:

Rec'd at 2°C
Custody Seals Intact
2-9-99

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
KU1002	PPMP-174-SW/SD02-SD-KU1002-REG	08-FEB-99	15:30	8 oz CWM	1	None except cool to 4 C	TAL Metals by 6010B/7471A - Soils, Semivolatiles by 8270C	N		
KU1002	PPMP-174-SW/SD02-SD-KU1002-REG	08-FEB-99	15:30	8 oz CWM	1	None Required	Grain Size by ASTM D421/D422	N		
KU1002	PPMP-174-SW/SD02-SD-KU1002-REG	08-FEB-99	15:30	4 oz CWM	1	None except cool to 4 C	Total Organic Carbon by 9060	N		
KU1002	PPMP-174-SW/SD02-SD-KU1002-REG	08-FEB-99	15:30	5 g EnCore	3	None except cool to 4 C	Volatiles by 8260B	N		
KU2004	PPMP-174-SW/SD02-SW-KU2004-REG	08-FEB-99	15:30	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		
KU2004	PPMP-174-SW/SD02-SW-KU2004-REG	08-FEB-99	15:30	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		
KU2004	PPMP-174-SW/SD02-SW-KU2004-REG	08-FEB-99	15:30	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KU2004-MS	PPMP-174-SW/SD02-SW-KU2004-MS-	08-FEB-99	15:30	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		

45

H98090160

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 174-020899-QSK

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Fil	CID	Condition On Receipt
KU2004-MS	PPMP-174-SW/SD02-SW-KU2004-MS-	08-FEB-99	15:30	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KU2004-MS	PPMP-174-SW/SD02-SW-KU2004-MS-	08-FEB-99	15:30	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		
KU2004-MSD	PPMP-174-SW/SD02-SW-KU2004-MSD	08-FEB-99	15:30	1 L HDPE	1	HNO3<pH 2	TAL Metals by 6010B/7470A - Water	N		
KU2004-MSD	PPMP-174-SW/SD02-SW-KU2004-MSD	08-FEB-99	15:30	1 L Amb. Glass	1	None except cool to 4 C	Semivolatiles by 8270C	N		
KU2004-MSD	PPMP-174-SW/SD02-SW-KU2004-MSD	08-FEB-99	15:30	40 mL VOA Vial	3	HCl<pH 2	Volatiles by 8260B	N		

APPENDIX B

BORING LOGS AND WELL CONSTRUCTION LOGS

BORING LOGS

HTRW DRILLING LOG

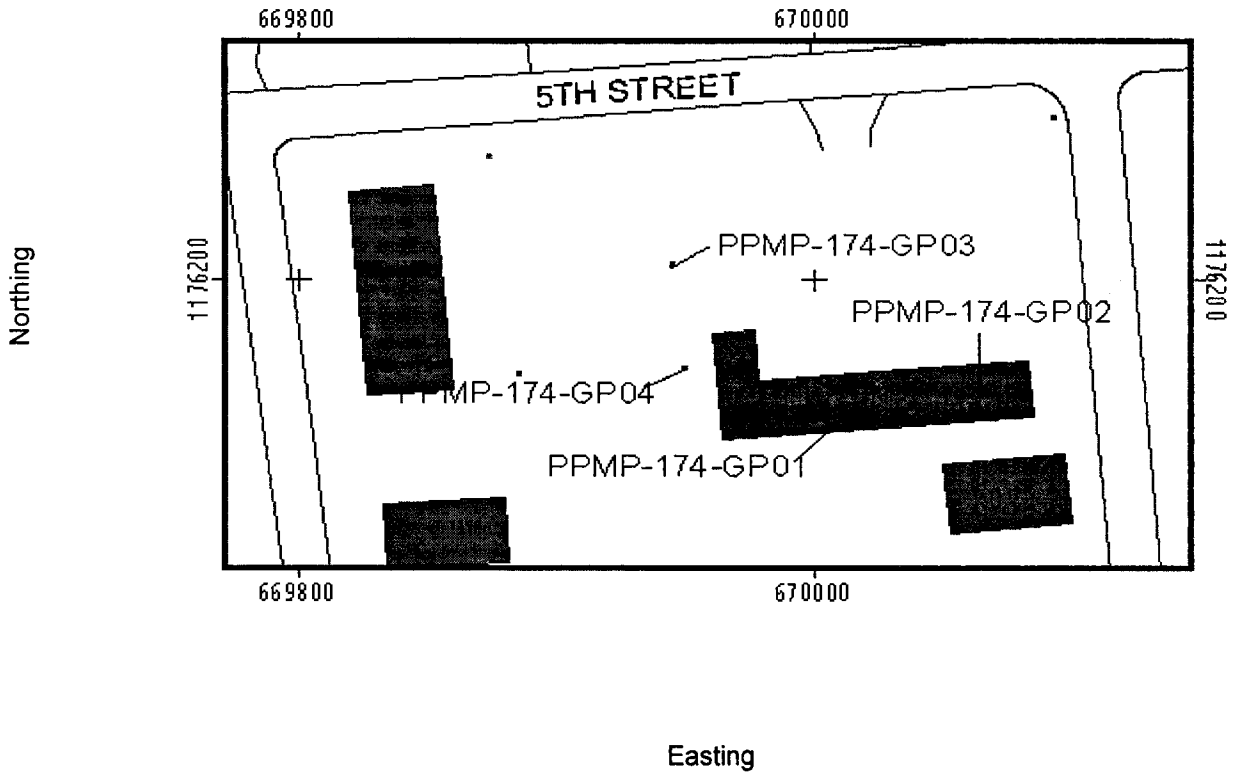
HOLE NUMBER PPMP-174-GP01

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

3. Project: Fort McClellan	4. Location: Parcel PPMP-174
5. Name of driller: Sammy McDaniels	6. Mfr designation of drill: Geoprobe
7. Sizes and types of drilling and sampling equipment: Direct Push DP- 2"x4' acetate lined sampler	8. Hole location Asphalt 9. Surface elevation (feet above mean sea level): 751.58 10. Date started: 01/29/99 — 11. Date completed: 01/29/99
12. Overburden thickness (feet bgs): >12	15. Depth groundwater encountered (feet bgs): NA
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA
14. Total depth of hole (feet bgs): 12	17. Other water level measurements (specify): NA

18. Geotechnical samples: NA	Disturbed: NA	Undisturbed: NA		19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	TCL	TAL	TCL SVOCs	NA	NA	NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X	NA	NA	J. MESSER		

LOCATION SKETCH/COMMENTS:



bgs= below ground surface
NA = Not applicable

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-174-GP01

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: Brown SAND, some Gravel, some Silt.	sm		Organic Vapor = 0ppm		KU0001		rec 12"
	1	cl: Red, brown CLAY, some Gravel, some Silt, decreasing Gravel with depth, turning gray at 5.8'.			Organic Vapor = 0ppm				rec 28"
750									
	2								
	3				Organic Vapor = 0ppm				rec 30"
	4		cl						
	5								
	6				Organic Vapor = 0ppm				rec 28"
745									
	7	sm: Grayish red, SAND, some Silt, Gravel.							
	8								
	9		sm		Organic Vapor = 0ppm				rec 17"

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-174-GP01

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						KU0002		10
	11	sh: Green to red gray, weathered SHALE, soft.							11
740			sh						Direct push boring terminated at 12.0' as per scope.
	12								12

HTRW DRILLING LOG

HOLE NUMBER PPMP-174-GP02

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

3. Project: Fort McClellan	4. Location: Parcel PPMP-174
5. Name of driller: Sammy McDaniels	6. Mfr designation of drill: Geoprobe
7. Sizes and types of drilling and sampling equipment: Direct Push DP - 2"x4' acetate-lined sampler	8. Hole location Asphalt 9. Surface elevation (feet above mean sea level): 751.69 10. Date started: 01/29/99 / 11. Date completed: 01/29/99
12. Overburden thickness (feet bgs): >9	15. Depth groundwater encountered (feet bgs): NA
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA
14. Total depth of hole (feet bgs): 9	17. Other water level measurements (specify): NA

18. Geotechnical samples: NA	Disturbed: NA		Undisturbed: NA	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	TCL	TAL	TCL SVOCs	NA	NA	NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X	NA	NA	J. MESSER		

LOCATION SKETCH/COMMENTS:

Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: PPMP-174-GP02

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-174-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: Brown to red SAND, some Gravel, some Silt.	sm		Organic Vapor = 0ppm		KU0003		rec 12"
	1	cl: Reddish gray CLAY, some Sand, turning mottled at 6.0'.	cl		Organic Vapor = 0ppm				rec 26"
750									
	2								
	3				Organic Vapor = 0ppm				rec 28"
	4								
	5								
	6				Organic Vapor = 0ppm				rec 30"
745									
	7	sm: Greenish gray, SAND, some Silt.	sm						
		cl: Greenish gray, mottled CLAY.					KU0004		
	8		cl						
		sh: Green gray, weathered SHALE, soft.	sh						Direct push refusal at 9.0'.
	9								

HTRW DRILLING LOG

HOLE NUMBER PPMP-174-GP03

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

3. Project: Fort McClellan	4. Location: Parcel PPMP-174
5. Name of driller: McDaniels/Pernell	6. Mfr designation of drill: Geoprobe/Mobile drill rig B-57
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 Asphalt/concrete 9. Surface elevation (feet above mean sea level): 746.52 10. Date started: 01/14/99 / 11. Date completed: 01/14/99
12. Overburden thickness (feet bgs): >20	15. Depth groundwater encountered (feet bgs): 10
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA
14. Total depth of hole (feet bgs): 20	17. Other water level measurements (specify): NA

18. Geotechnical samples: NA	Disturbed: NA	Undisturbed: NA		19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	TCL	TAL	TCL SVOCs	NA	NA	NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	Temporary	NA	NA	J. MESSER, T. LeCALVEZ		

LOCATION SKETCH/COMMENTS:

Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: PPMP-174-GP03

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-174-GP03

Project: Fort McClellan | Geologist: J. MESSER, T. LeCALVEZ | 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	gm: Brown GRAVEL, some Silt.	gm		Organic Vapor = 0ppm		KU0005		rec 12"
	1				Organic Vapor = 3.6ppm				rec 24"
745									
	2						KU0008		
		cl: Reddish brown CLAY, some Silt, some Gravel, turning gray, decreasing in Gravel.							
	3				Organic Vapor = 0ppm				rec 24"
	4		cl						
	5								
	6				Organic Vapor = 0ppm				rec 28"
740									
	7								
	8	sm: Gray SAND, some Silt, Gravel.	sm						
	9	NA: No Recovery.							Direct push refusal at 9.0'.

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-174-GP03

Project: Fort McClellan | Geologist: J. MESSER, T. LeCALVEZ | 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	sh: Brown, tan, weathered SHALE.			Organic Vapor = 0ppm				blow 12 25 50/4" rec 6"
	11		sh						
735									
	12	sh: Brown, gray SHALE.							
	13								
	14								
	15								
	16		sh						
730									
	17								
	18								
	19								
	20								Bottom of borehole 20.0'. Augered form 9.0' to 20.0'.

HTRW DRILLING LOG

HOLE NUMBER	PPMP-174-GP04

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

3. Project: Fort McClellan	4. Location: Parcel PPMP-174
5. Name of driller: McDaniels/Pernell	6. Mfr designation of drill: Geoprobe/Mobile Drill Rig B-61
7. Sizes and types of drilling and sampling equipment: Direct Push, Hollow Stem Auger DP - 2"x 4' acetate-lined sampler HSA- 5'x8.5"od augers, 2'x2" steel split spoons	8. Hole location Asphalt/gravel 9. Surface elevation (feet above mean sea level): 746.70 10. Date started: 01/14/99 11. Date completed: 01/14/99
12. Overburden thickness (feet bgs): >16.5	15. Depth groundwater encountered (feet bgs): 12
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA
14. Total depth of hole (feet bgs): 16.5	17. Other water level measurements (specify): NA

18. Geotechnical samples: NA	Disturbed: NA	Undisturbed: NA		19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	TCL	TAL	TCL SVOCs	NA	NA	NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	NA	Temporary	NA	J. MESSER, T. LeCALVEZ		

LOCATION SKETCH/COMMENTS:

Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: PPMP-174-GP04

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-174-GP04

Project: Fort McClellan | Geologist: J. MESSER, T. LeCALVEZ | 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: Brown SAND, some Silt, Gravel.	sm		Organic Vapor = 0ppm		KU0009		rec 12"
	1	cl: Reddish brown CLAY, some Silt, some Gravel, grading into a gray.	cl		Organic Vapor = 0.0ppm				rec 16"
745									
	2								
	3								rec 26"
	4								
	5				Organic Vapor = 0.7ppm				
	6				Organic Vapor = 6.4ppm				rec 32"
740		sm: Gray SAND, some Silt, Gravel.	sm				KU0010		
	7								
	8	sh: Weathered SHALE, soft, greenish red.	sh						blow 5 6 11 15 rec 20"
	9	NA: No Recovery.							Direct push refusal at 9.0'.

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PPMP-174-GP04

Project: Fort McClellan | Geologist: J. MESSER, T. LeCALVEZ | 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: Brown, gray, CLAY, trace Silt, Sand, medium plasticity.			Organic Vapor = 0ppm				blow 5 4 6 24 rec 16"
	11		cl						
735									
	12	sh: Mottled brown, gray weathered SHALE.	sh						
	13	cl: Light brown, tan, very soft CLAY.	cl						
	14	sh: Dark gray, weathered SHALE.	sh						
	15								
	16								Bottom of borehole 16.5'. Augered from 9.0' to 16.5'.

WELL CONSTRUCTION LOGS

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC	**WELL NO:** PPMP-174-GP03
LOCATION Anniston, AL	**DRILLING METHOD:** Hollow Stem Auger
CLIENT: USACE Mobile District	**INSTALLATION DATE** 01/14/99
CONTRACTOR TEG / MILLER DRILLING CO.	**NORTHING:** 1176206.76
DRILLER: J. PERNELL	**EASTING:** 669946.06
IT FIELD REPRESENTATIVE: J. MESSER, T. LeCALVEZ	**JOB NO:** 774645A

GROUND SURFACE ELEVATION* 746.52

TOP of WELL CASING or RISER PIPE EL* 749.11 STICKUP 2.59

TYPE of SURFACE SEAL Temporary

TEMPORARY SURFACE SEAL

ANNULAR SPACE SEAL TYPE N/A

TYPE of RISER MATERIAL (Flush Threaded) PVC SCH 40

INSIDE DIAMETER of RISER (inches) 2

TOP OF BENTONITE SEAL 2

APPROXIMATE DIAMETER of BOREHOLE (inches) 8.25

TOP OF SAND PACK 4

TOP OF SCREENED INTERVAL EL* 741.77 DEPTH 4.75

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* 726.77 DEPTH 19.75

BOTTOM of SUMP and WELL EL* 726.52 DEPTH 20

BOTTOM of BOREHOLE EL* 726.52 DEPTH 20

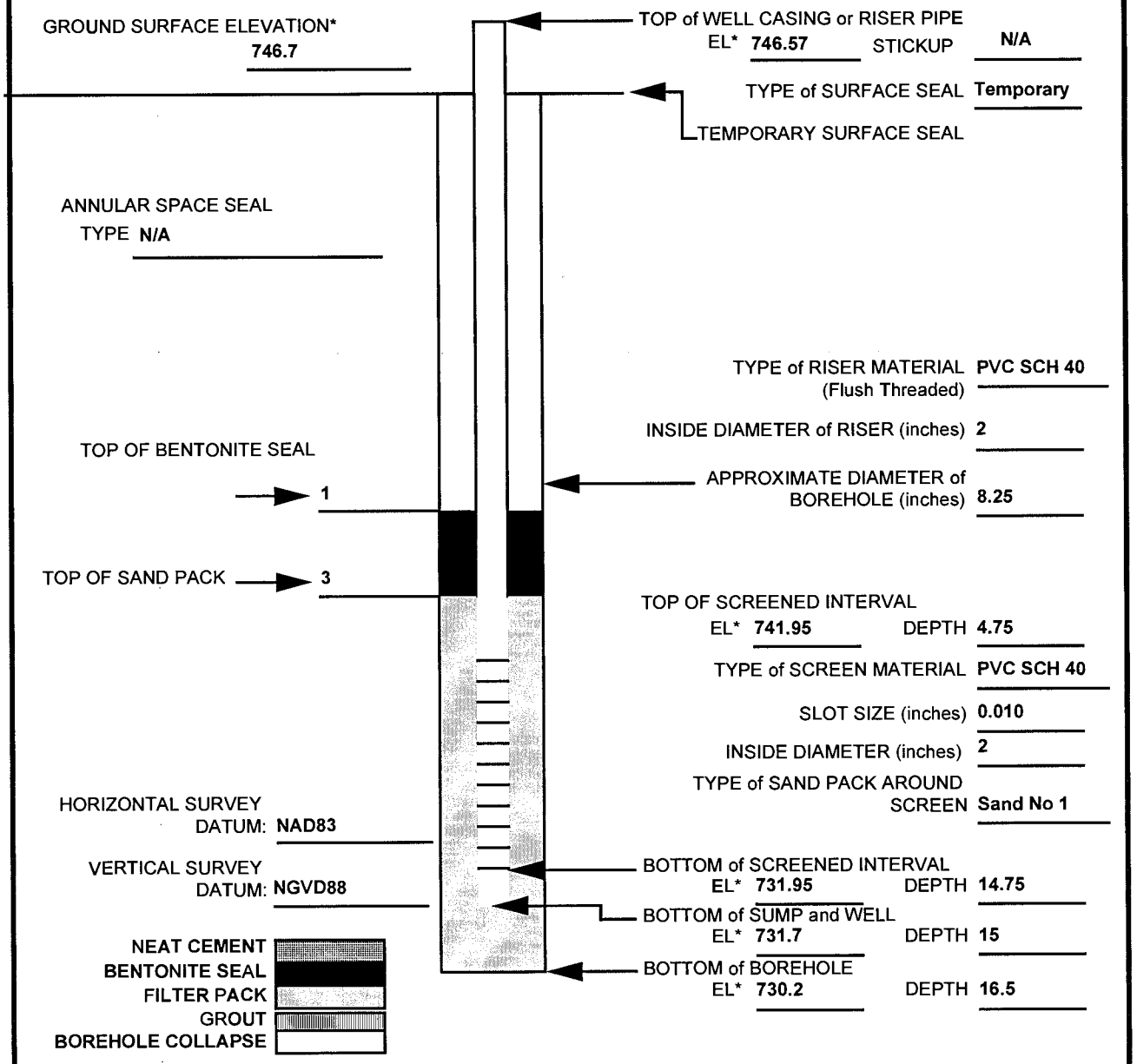
NEAT CEMENT
BENTONITE SEAL
FILTER PACK
GROUT
BOREHOLE COLLAPSE

*All elevations (EL) are referenced to MSL.

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

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC	**WELL NO:** PPMP-174-GP04
LOCATION Anniston, AL	**DRILLING METHOD:** Hollow Stem Auger
CLIENT: USACE Mobile District	**INSTALLATION DATE** 01/14/99
CONTRACTOR TEG / MILLER DRILLING CO.	**NORTHING:** 1176162.57
DRILLER: J. PERNELL	**EASTING:** 669951.08
IT FIELD REPRESENTATIVE: J. MESSER, T. LeCALVEZ	**JOB NO:** 774645A



*All elevations (EL) are referenced to MSL.

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

APPENDIX C

WELL DEVELOPMENT LOGS

Parcel 174

Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

D: **LOCATION ID:** PPMP-174-GPØ3 (Well Number) **Static Water Level:** 5.10 ft

Purge Volume: 2.75 gal WELL DEPTH: 21.94 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** 21.94'

16.84 H_2O COLUMN

ate 99	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
-9	12:52		5.43	.5	21.2	6.69	2.17	>1K	.51		TM	DARK BROWN
	12:59		7.32	3	19.8	6.77	2.14	>1K	.61			"
	13:05		7.60	6	19.5	6.75	2.16	>1K	.45			"
	13:10		8.18	9	18.9	6.72	2.15	>1K	1.07			"
	13:13		9.38	12	18.7	6.73	2.04	>1K	1.42			"
	13:15		10.45	15	18.9	6.66	2.22	>1K	1.24			"
	13:18		11.27	18	19.1	6.60	2.14	>1K	1.21			"
	13:21		11.98	21	19.1	6.57	2.14	>1K	1.55			"
	13:23		12.33	24	19.1	6.56	2.13	>1K	1.69			"
	13:27		13.11	28	19.1	6.49	2.13	>1K	1.32			"
	13:30		13.72	32	19.0	6.49	2.13	>1K	1.92			"

Parcel 174
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

D: **LOCATION ID:** PPMP-174-GP03 (Well Number) **Static Water Level:** _____ ft

Purge Volume: _____ gal WELL DEPTH: _____ (ft from TOC) Well Casing Diameter: (opt) _____ **Recovery Depth:** _____

ate 99	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
-9	13:34		14.04	36	19.0	6.48	2.13	>1K	1.84		TM	DARK BROWN
	13:38		14.57	40	19.0	6.48	2.12	>1K	1.86			"
	13:42		15.41	44	19.2	6.43	2.13	>1K	2.07			"
	13:47		15.71	48	19.3	6.43	2.12	>1K	2.44			"
	13:51		16.11	53	19.3	6.41	2.11	>1K	2.56			"
	13:56		15.97	58	19.3	6.38	2.13	>1K	2.79			"
	14:00		15.94	62	19.3	6.35	2.14	>1K	2.70			"
	14:04		15.95	66	19.3	6.32	2.14	>1K	3.00			"
	14:09		15.97	70	19.3	6.28	2.14	799	2.69			LIGHT BROWN
	14:13		15.97	74	19.2	6.30	2.15	778	2.70			"
	14:18		15.83	78	19.3	6.28	2.14	>1K	2.95			"

Parcel 174
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

D: **LOCATION ID:** PPMP-174-WP03 (Well Number) **Static Water Level:** _____ ft

t Purge Volume: _____ gal WELL DEPTH: _____ (ft from TOC) Well Casing Diameter: (opt) _____ **Recovery Depth:** _____

ate 999	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
-9	14:28		16.07	82	19.4	6.20	2.15	658	3.03		TM	LIGHT BROWN
	14:35		16.16	87	19.3	6.19	2.15	341	2.70			"
	14:40		15.98	92	19.4	6.11	2.15	189	3.11			"
	14:46		15.87	96	19.4	6.08	2.15	163	3.46			CLOUDY
	14:52		15.91	100	19.4	6.04	2.15	141	3.01			"
	14:57		15.94	104	19.4	6.02	2.15	361	3.09			"
	15:04		16.00	108	19.5	5.97	2.15	293	2.94			"
	15:10		16.08	113	19.4	5.96	2.16	89	2.92			CLEARING
	15:18		15.99	118	19.4	5.91	2.16	82	3.06			"
	15:24		15.98	122	19.4	5.94	2.16	193	2.82			CLOUDY
	15:30		15.95	126	19.4	5.94	2.16	263	2.51			"

Parcel 174
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

D: **LOCATION ID:** PPMP-174-GP03 (Well Number) **Static Water Level:** _____ ft

t Purge Volume: _____ gal WELL DEPTH: _____ (ft from TOC) Well Casing Diameter: (opt) _____ **Recovery Depth:** _____

ate 999	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
-9	15:33		15.93	130	19.4	5.95	2.16	86	2.92		TM	CLOUDY
	15:37		15.91	132	19.4	5.95	2.16	168	2.35			" STARTED PUMP
	16:15		6.80	132	21.0	6.00	2.13	827	2.74			DARK BROWN
	16:19		11.27	136	18.7	6.06	2.14	>1K	4.09			"
	16:21		12.75	140	18.8	6.06	2.16	>1K	2.92			"
	16:25		15.39	144	18.9	6.00	2.17	>1K	2.39			"
	16:28		16.21	148	19.1	5.99	2.16	>1K	2.46			"
	16:32		16.27	152	19.3	6.11	2.15	>1K	4.74			"
	16:38		16.31	156	19.3	6.03	2.16	412	4.31			LIGHT BROWN
	16:45		16.44	160	19.3	5.96	2.16	359	4.17			"
	16:50		16.61	164	19.2	5.96	2.17	182	3.85			CLOUDY

Parcel 174
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** PPMP-174-GP03 (Well Number) **Static Water Level:** _____ ft

Target Purge Volume: _____ gal WELL DEPTH: _____ (ft from TOC) Well Casing Diameter: (opt) _____ **Recovery Depth:** _____

Date 1999	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
2-9	16:56		16.84	168	19.1	5.96	2.17	130	3.81		TM	CLOUDY
	17:02		16.93	172	19.1	5.97	2.17	107	3.86			"
	17:08		17.54	176	19.1	5.96	2.16	90	3.58			"
	17:15		17.48	180	19.0	5.98	2.18	97	3.52			"
	17:22		18.84	184	19.0	5.99	2.18	62	3.35			CLEARING
	17:27		19.06	188	18.9	5.99	2.18	363	2.85			CLOUDY
	17:31		19.27	190	19.0	5.99	2.17	195	3.71			CLOUDY
	:											
	:				LAST	ENTRY						
	:					2-9-99						
	:											

Parcel 174
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

): **LOCATION ID:** PPMP-174-GP04 (Well Number) **Static Water Level:** 4.74 ft

Purge Volume: 1.67 gal WELL DEPTH: 15.0 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** 15'

10.26

te 99	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
-9	09:21		4.44	.5	20.3	6.61	1.41	197	1.75		TM	CLOUDY
	09:26		4.44	2	19.4	6.69	1.44	155	1.08			"
	09:31		6.87	4	18.8	6.79	1.49	78	1.28			"
	09:34		7.69	6	19.0	6.66	1.44	41	1.12			CLEAR
	09:38		TM ~~10.53~~ 9.53	8	19.4	6.77	1.44	49	1.57			"
	09:44		10.02	10	20.0	6.80	1.47	23	.91			"
	09:53		11.37	12	20.3	6.96	1.48	157	2.03			CLOUDY
	10:02		11.71	14	20.4	7.09	1.50	36	1.95			CLEAR
	10:10		12.33	16	20.6	7.16	1.52	28	1.76			"
	10:25		12.54	19	20.3	7.32	1.50	401	2.14			CLOUDY
	10:38		12.89	22	20.5	7.21	1.54	133	2.40			"

Parcel 174
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** PMP-174-GP04 (Well Number) **Static Water Level:** _____ ft

Target Purge Volume: 1.67 gal WELL DEPTH: _____ (ft from TOC) Well Casing Diameter: (opt) _____ **Recovery Depth:** _____

Date 1999	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
2-9	10:52		12.67	24	20.3	7.20	1.55	51	2.36		TM	CLEAR
↓	11:02		12.87	26	20.2	7.23	1.55	24	2.93		↓	"
↓	11:13		13.09	28	20.2	7.21	1.57	7	2.44		↓	"
	:											
	:											
	:											
	:											
	:											
	:											
	:											
	:											
	:											

LAST ENTRY
D. Mott
2-9-99

APPENDIX D

SURVEY DATA

Appendix D

Survey Data
Small Weapons Storage and Cleaning Compound
Building 1378, Parcel 174(7)
Fort McClellan, Calhoun County, Alabama

Sample Location	Northing	Easting	Ground Elevation (ft msl)	Top of Casing Elevation (ft msl)
PPMP-174-DEP01	1176160.56	669886.02	751.36	NA
PPMP-174-GP01	1176156.05	670025.35	751.58	NA
PPMP-174-GP02	1176161.26	670064.26	751.69	NA
PPMP-174-GP03	1176206.77	669946.07	746.52	749.11
PPMP-174-GP04	1176162.58	669951.09	746.70	746.57
PPMP-174-SW/SD01	1176253.64	669874.17	746.94	NA
PPMP-174-SW/SD02	1176270.96	670093.69	750.20	NA

Horizontal coordinates referenced to the U.S. State Plane Coordinate System, Alabama East Zone, North American Datum of 1983 (NAD 83).

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

ft msl - feet above mean sea level.
NA - Not applicable; temporary well not installed.

APPENDIX E

SUMMARY OF VALIDATED ANALYTICAL DATA

Summary of Validated Surface and Depositional Soil Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-DEP01			PPMP-174-GP01			PPMP-174-GP02			PPMP-174-GP03		
	Associated Site:	PPMP-174			PPMP-174			PPMP-174			PPMP-174		
	Sample No:	KU0011			KU0001			KU0003			KU0005		
	Sample Date:	09-MAR-99			29-JAN-99			29-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	0 - 1			0 - 1			0 - 1			0 - 1		
Lab Method / *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
METALS													
SW6010_S													
Aluminum	mg/kg	7160			8150			6220			10400		
Antimony	mg/kg	7.8	U	U	6.8	U	UJ	6.7	U	UJ	7.3	U	U
Arsenic	mg/kg	19.8			8.7			3.8			15.8		J
Barium	mg/kg	46.5			52.8			33.6			64.8		
Beryllium	mg/kg	0.75			0.70			0.49	B	J	0.67		
Cadmium	mg/kg	0.65	U	U	0.57	U	U	0.56	U	U	0.61	U	U
Calcium	mg/kg	2280			5460			31500			9580		
Chromium	mg/kg	20.5			15.0		J	23.8		J	20.0		
Cobalt	mg/kg	4.7	B	J	4.2	B	J	2.6	B	J	6.1	U	U
Copper	mg/kg	30.9			23.0			9.5			24.0		
Iron	mg/kg	36800			26800			20600			42500		
Lead	mg/kg	38.5			27.0		J	13.4		J	17.2		
Magnesium	mg/kg	1340			2250		J	16300		J	1790		
Manganese	mg/kg	238			121		J	115		J	456		
Nickel	mg/kg	12.5			9.8			7.7			8.9		J
Potassium	mg/kg	335	B	J	423	B	J	342	B	J	418	B	J
Selenium	mg/kg	1.5			1.5			0.90			2.2		
Silver	mg/kg	1.3	U	U	1.1	U	U	1.1	U	U	2.7		
Sodium	mg/kg	121	B	B	71.7	B	B	98.6	B	B	65.5	B	J
Thallium	mg/kg	1.3	U	U	1.1	U	U	1.1	U	U	1.2	U	U
Vanadium	mg/kg	31.7			24.6			26.6			11.8		
Zinc	mg/kg	83.5			52.7		J	20.9		J	45.6		J
SW7471_S													
Mercury	mg/kg	0.066		B	0.043			0.040			0.056		
SEMIVOLATILES													
SW8270_S													
1,2,4-Trichlorobenzene	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
1,2-Dichlorobenzene	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
1,3-Dichlorobenzene	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
1,4-Dichlorobenzene	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U

Summary of Validated Surface and Depositional Soil Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-GP03			PPMP-174-GP04			
	Associated Site:	PPMP-174			PPMP-174			
	Sample No:	KU0006			KU0009			
	Sample Date:	14-JAN-99			14-JAN-99			
User Test Group	*Sample Depth:*	0 - 1			0 - 1			
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	
METALS								
SW6010_S								
Aluminum	mg/kg	10600			10100			
Antimony	mg/kg	7.3	U	U	7.4	U	U	
Arsenic	mg/kg	34.8		J	8.3			
Barium	mg/kg	70.9			38.1			
Beryllium	mg/kg	0.86			0.73			
Cadmium	mg/kg	0.61	U	U	0.62	U	U	
Calcium	mg/kg	8730			4220			
Chromium	mg/kg	32.1			15.4			
Cobalt	mg/kg	6.1	U	U	6.2	U	U	
Copper	mg/kg	32.1			29.0			
Iron	mg/kg	47600			28200			
Lead	mg/kg	20.7			14.2			
Magnesium	mg/kg	1560			3250			
Manganese	mg/kg	404			129			
Nickel	mg/kg	16.5		J	14.9			
Potassium	mg/kg	399	B	J	316	B	J	
Selenium	mg/kg	2.4			1.4			
Silver	mg/kg	3.5			1.8			
Sodium	mg/kg	59.3	B	J	43.4	B	J	
Thallium	mg/kg	0.56	B	J	1.2	U	U	
Vanadium	mg/kg	13.3			8.1			
Zinc	mg/kg	90.2		J	71.3			
SW7471_S								
Mercury	mg/kg	0.041			0.034	B	J	
SEMIVOLATILES								
SW8270_S								
1,2,4-Trichlorobenzene	mg/kg	.4	U	U	.41	U	U	
1,2-Dichlorobenzene	mg/kg	.4	U	U	.41	U	U	
1,3-Dichlorobenzene	mg/kg	.4	U	U	.41	U	U	
1,4-Dichlorobenzene	mg/kg	.4	U	U	.41	U	U	

Summary of Validated Surface and Depositional Soil Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-DEP01			PPMP-174-GP01			PPMP-174-GP02			PPMP-174-GP03		
	Associated Site:	PPMP-174			PPMP-174			PPMP-174			PPMP-174		
	Sample No:	KU0011			KU0001			KU0003			KU0005		
	Sample Date:	09-MAR-99			29-JAN-99			29-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	0 - 1			0 - 1			0 - 1			0 - 1		
Lab Method													
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES													
SW8270_S													
2,4,5-Trichlorophenol	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
2,4,6-Trichlorophenol	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
2,4-Dichlorophenol	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
2,4-Dimethylphenol	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
2,4-Dinitrophenol	mg/kg	2.1	U	U	1.8	U	U	1.8	U	U	1.9	U	U
2,4-Dinitrotoluene	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
2,6-Dinitrotoluene	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
2-Chloronaphthalene	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
2-Chlorophenol	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
2-Methylnaphthalene	mg/kg	.43	U	U	.38	U	U	.043	J	J	.4	U	U
2-Methylphenol	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
2-Nitroaniline	mg/kg	2.1	U	U	1.8	U	U	1.8	U	U	1.9	U	U
2-Nitrophenol	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
3,3'-Dichlorobenzidine	mg/kg	2.1	U	U	1.8	U	U	1.8	U	U	1.9	U	U
3-Nitroaniline	mg/kg	2.1	U	U	1.8	U	UJ	1.8	U	UJ	1.9	U	U
4,6-Dinitro-2-methylphenol	mg/kg	2.1	U	U	1.8	U	U	1.8	U	U	1.9	U	U
4-Bromophenyl phenyl ether	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
4-Chloro-3-methylphenol	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
4-Chloroaniline	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
4-Chlorophenyl phenyl ether	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
4-Methylphenol	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
4-Nitroaniline	mg/kg	2.1	U	U	1.8	U	UJ	1.8	U	UJ	1.9	U	U
4-Nitrophenol	mg/kg	2.1	U	U	1.8	U	U	1.8	U	U	1.9	U	U
Acenaphthene	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
Acenaphthylene	mg/kg	.1	J	J	.097	J	J	.13	J	J	.058	J	J
Anthracene	mg/kg	.43	U	U	.053	J	J	.087	J	J	.4	U	U
Benzo(a)anthracene	mg/kg	.29	J	J	.082	J	J	.12	J	J	.044	J	J
Benzo(a)pyrene	mg/kg	.55			.16	J	J	.21	J	J	.089	J	J
Benzo(b)fluoranthene	mg/kg	.71			.17	J	J	.3	J	J	.097	J	J
Benzo(ghi)perylene	mg/kg	.32	J	J	.091	J	J	.058	J	J	.098	J	J
Benzo(k)fluoranthene	mg/kg	.34	J	J	.18	J	J	.2	J	J	.078	J	J

	Location Code:	PPMP-174-GP03			PPMP-174-GP04		
	Associated Site:	PPMP-174			PPMP-174		
	Sample No:	KU0006			KU0009		
	Sample Date:	14-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	0 - 1			0 - 1		
Lab Method							
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES							
SW8270_S							
2,4,5-Trichlorophenol	mg/kg	.4	U	U	.41	U	U
2,4,6-Trichlorophenol	mg/kg	.4	U	U	.41	U	U
2,4-Dichlorophenol	mg/kg	.4	U	U	.41	U	U
2,4-Dimethylphenol	mg/kg	.4	U	U	.41	U	U
2,4-Dinitrophenol	mg/kg	2	U	U	2	U	U
2,4-Dinitrotoluene	mg/kg	.4	U	U	.41	U	U
2,6-Dinitrotoluene	mg/kg	.4	U	U	.41	U	U
2-Chloronaphthalene	mg/kg	.4	U	U	.41	U	U
2-Chlorophenol	mg/kg	.4	U	U	.41	U	U
2-Methylnaphthalene	mg/kg	.4	U	U	.41	U	U
2-Methylphenol	mg/kg	.4	U	U	.41	U	U
2-Nitroaniline	mg/kg	2	U	U	2	U	U
2-Nitrophenol	mg/kg	.4	U	U	.41	U	U
3,3'-Dichlorobenzidine	mg/kg	2	U	U	2	U	U
3-Nitroaniline	mg/kg	2	U	U	2	U	U
4,6-Dinitro-2-methylphenol	mg/kg	2	U	U	2	U	U
4-Bromophenyl phenyl ether	mg/kg	.4	U	U	.41	U	U
4-Chloro-3-methylphenol	mg/kg	.4	U	U	.41	U	U
4-Chloroaniline	mg/kg	.4	U	U	.41	U	U
4-Chlorophenyl phenyl ether	mg/kg	.4	U	U	.41	U	U
4-Methylphenol	mg/kg	.4	U	U	.41	U	U
4-Nitroaniline	mg/kg	2	U	U	2	U	U
4-Nitrophenol	mg/kg	2	U	U	2	U	U
Acenaphthene	mg/kg	.4	U	U	.41	U	U
Acenaphthylene	mg/kg	.4	U	U	.41	U	U
Anthracene	mg/kg	.4	U	U	.41	U	U
Benzo(a)anthracene	mg/kg	.039	J	J	.41	U	U
Benzo(a)pyrene	mg/kg	.065	J	J	.41	U	U
Benzo(b)fluoranthene	mg/kg	.053	J	J	.41	U	U
Benzo(ghi)perylene	mg/kg	.066	J	J	.41	U	U
Benzo(k)fluoranthene	mg/kg	.058	J	J	.41	U	U

Summary of Validated Surface and Depositional Soil Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-DEP01			PPMP-174-GP01			PPMP-174-GP02			PPMP-174-GP03		
	Associated Site:	PPMP-174			PPMP-174			PPMP-174			PPMP-174		
	Sample No:	KU0011			KU0001			KU0003			KU0005		
	Sample Date:	09-MAR-99			29-JAN-99			29-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	0 - 1			0 - 1			0 - 1			0 - 1		
Lab Method / *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES													
SW8270_S													
Butyl benzyl phthalate	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
Carbazole	mg/kg	.43	U	U	.38	U	UJ	.05	J	J	.4	U	U
Chrysene	mg/kg	.3	J	J	.11	J	J	.16	J	J	.067	J	J
Di-n-butyl phthalate	mg/kg	.43	U	U	.38	U	U	.37	U	U	.055	J B	B
Di-n-octyl phthalate	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
Dibenz(a,h)anthracene	mg/kg	.075	J	J	.045	J	J	.37	U	U	.4	U	U
Dibenzofuran	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
Diethyl phthalate	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
Dimethyl phthalate	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
Fluoranthene	mg/kg	.33	J	J	.097	J	J	.11	J	J	.4	U	U
Fluorene	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
Hexachlorobenzene	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
Hexachlorobutadiene	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
Hexachlorocyclopentadiene	mg/kg	.43	U	U	1.8	U	U	1.8	U	U	1.9	U	UJ
Hexachloroethane	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
Indeno(1,2,3-cd)pyrene	mg/kg	.35	J	J	.092	J	J	.075	J	J	.081	J	J
Isophorone	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
Naphthalene	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
Nitrobenzene	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
Pentachlorophenol	mg/kg	2.1	U	U	1.8	U	U	1.8	U	U	1.9	U	U
Phenanthrene	mg/kg	.095	J	J	.031	J	J	.026			.4	U	U
Phenol	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
Pyrene	mg/kg	.3	J	J	.092	J	J	.11	J	J	.051	J	J
bis(2-Chloroethoxy)methane	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
bis(2-Chloroethyl)ether	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
bis(2-Chloroisopropyl)ether	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
bis(2-Ethylhexyl)phthalate	mg/kg	.23	J	J	.065	J B	B	.37	U	U	.083	J B	B
n-Nitroso-di-n-propylamine	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U
n-Nitrosodiphenylamine	mg/kg	.43	U	U	.38	U	U	.37	U	U	.4	U	U

	Location Code:	PPMP-174-GP03			PPMP-174-GP04		
	Associated Site:	PPMP-174			PPMP-174		
	Sample No:	KU0006			KU0009		
	Sample Date:	14-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	0 - 1			0 - 1		
Lab Method							
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES							
SW8270_S							
Butyl benzyl phthalate	mg/kg	.4	U	U	.41	U	U
Carbazole	mg/kg	.4	U	U	.41	U	U
Chrysene	mg/kg	.044	J	J	.41	U	U
Di-n-butyl phthalate	mg/kg	.059	J B	B	.049	J B	B
Di-n-octyl phthalate	mg/kg	.4	U	U	.41	U	U
Dibenz(a,h)anthracene	mg/kg	.4	U	U	.41	U	U
Dibenzofuran	mg/kg	.4	U	U	.41	U	U
Diethyl phthalate	mg/kg	.4	U	U	.41	U	U
Dimethyl phthalate	mg/kg	.4	U	U	.41	U	U
Fluoranthene	mg/kg	.4	U	U	.41	U	U
Fluorene	mg/kg	.4	U	U	.41	U	U
Hexachlorobenzene	mg/kg	.4	U	U	.41	U	U
Hexachlorobutadiene	mg/kg	.4	U	U	.41	U	U
Hexachlorocyclopentadiene	mg/kg	2	U	UJ	2	U	UJ
Hexachloroethane	mg/kg	.4	U	U	.41	U	U
Indeno(1,2,3-cd)pyrene	mg/kg	.058	J	J	.41	U	U
Isophorone	mg/kg	.4	U	U	.41	U	U
Naphthalene	mg/kg	.4	U	U	.41	U	U
Nitrobenzene	mg/kg	.4	U	U	.41	U	U
Pentachlorophenol	mg/kg	2	U	U	2	U	U
Phenanthrene	mg/kg	.4	U	U	.41	U	U
Phenol	mg/kg	.4	U	U	.41	U	U
Pyrene	mg/kg	.4	U	U	.41	U	U
bis(2-Chloroethoxy)methane	mg/kg	.4	U	U	.41	U	U
bis(2-Chloroethyl)ether	mg/kg	.4	U	U	.41	U	U
bis(2-Chloroisopropyl)ether	mg/kg	.4	U	U	.41	U	U
bis(2-Ethylhexyl)phthalate	mg/kg	.079	J B	B	.1	J B	B
n-Nitroso-di-n-propylamine	mg/kg	.4	U	U	.41	U	U
n-Nitrosodiphenylamine	mg/kg	.4	U	U	.41	U	U

Summary of Validated Surface and Depositional Soil Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-DEP01			PPMP-174-GP01			PPMP-174-GP02			PPMP-174-GP03		
	Associated Site:	PPMP-174			PPMP-174			PPMP-174			PPMP-174		
	Sample No:	KU0011			KU0001			KU0003			KU0005		
	Sample Date:	09-MAR-99			29-JAN-99			29-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	0 - 1			0 - 1			0 - 1			0 - 1		
Lab Method													
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES													
SW8260_S													
1,1,1,2-Tetrachloroethane	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
1,1,1-Trichloroethane	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
1,1,2,2-Tetrachloroethane	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
1,1,2-Trichloroethane	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
1,1-Dichloroethane	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
1,1-Dichloroethene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
1,1-Dichloropropene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
1,2,3-Trichlorobenzene	mg/kg	.0065	U	UJ	.0057	U	UJ	.0056	U	UJ	.0061	U	UJ
1,2,3-Trichloropropane	mg/kg	.0065	U	UJ	.0057	U	U	.0056	U	UJ	.0061	U	UJ
1,2,4-Trichlorobenzene	mg/kg	.0065	U	UJ	.0057	U	UJ	.0056	U	UJ	.0061	U	UJ
1,2,4-Trimethylbenzene	mg/kg	.0065	U	UJ	.0057	U	U	.0066		J	.0061	U	UJ
1,2-Dibromo-3-Chloropropane	mg/kg	.013	U	UJ	.011	U	U	.011	U	UJ	.012	U	R
1,2-Dibromoethane	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
1,2-Dichlorobenzene	mg/kg	.0065	U	UJ	.0057	U	U	.0056	U	UJ	.0061	U	UJ
1,2-Dichloroethane	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
1,2-Dichloropropane	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
1,2-Dimethylbenzene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
1,3,5-Trimethylbenzene	mg/kg	.0065	U	UJ	.0057	U	U	.0056	U	UJ	.0061	U	UJ
1,3-Dichlorobenzene	mg/kg	.0065	U	UJ	.0057	U	U	.0056	U	UJ	.0061	U	UJ
1,3-Dichloropropane	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
1,4-Dichlorobenzene	mg/kg	.0065	U	UJ	.0057	U	U	.0056	U	UJ	.0061	U	UJ
2-Butanone	mg/kg	.026	U	R	.0065	J	J	.0038	J	J	.024	U	R
2-Hexanone	mg/kg	.026	U	U	.023	U	U	.022	U	U	.024	U	U
4-Methyl-2-pentanone	mg/kg	.026	U	U	.023	U	U	.022	U	U	.024	U	U
Acetone	mg/kg	.0089	J B	B	.039		J	.022		J	.015	J B	B
Benzene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
Bromobenzene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
Bromochloromethane	mg/kg	.0065	U	R	.0057	U	U	.0056	U	U	.0061	U	U
Bromodichloromethane	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
Bromoform	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
Bromomethane	mg/kg	.013	U	U	.011	U	R	.011	U	R	.0019	J B	B

	Location Code:	PPMP-174-GP03			PPMP-174-GP04		
	Associated Site:	PPMP-174			PPMP-174		
	Sample No:	KU0006			KU0009		
	Sample Date:	14-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	0 - 1			0 - 1		
Lab Method / *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES							
SW8260_S							
1,1,1,2-Tetrachloroethane	mg/kg	.0061	U	U	.0062	U	U
1,1,1-Trichloroethane	mg/kg	.0061	U	U	.0062	U	U
1,1,2,2-Tetrachloroethane	mg/kg	.0061	U	U	.0062	U	U
1,1,2-Trichloroethane	mg/kg	.0061	U	U	.0062	U	U
1,1-Dichloroethane	mg/kg	.0061	U	U	.0062	U	U
1,1-Dichloroethene	mg/kg	.0061	U	U	.0062	U	U
1,1-Dichloropropene	mg/kg	.0061	U	U	.0062	U	U
1,2,3-Trichlorobenzene	mg/kg	.0061	U	UJ	.0062	U	UJ
1,2,3-Trichloropropane	mg/kg	.0061	U	UJ	.0062	U	UJ
1,2,4-Trichlorobenzene	mg/kg	.0061	U	UJ	.0062	U	UJ
1,2,4-Trimethylbenzene	mg/kg	.0061	U	UJ	.0062	U	UJ
1,2-Dibromo-3-Chloropropane	mg/kg	.012	U	R	.012	U	R
1,2-Dibromoethane	mg/kg	.0061	U	U	.0062	U	U
1,2-Dichlorobenzene	mg/kg	.0061	U	UJ	.0062	U	UJ
1,2-Dichloroethane	mg/kg	.0061	U	U	.0062	U	U
1,2-Dichloropropane	mg/kg	.0061	U	U	.0062	U	U
1,2-Dimethylbenzene	mg/kg	.0061	U	U	.0062	U	U
1,3,5-Trimethylbenzene	mg/kg	.0061	U	UJ	.0062	U	UJ
1,3-Dichlorobenzene	mg/kg	.0061	U	UJ	.0062	U	UJ
1,3-Dichloropropane	mg/kg	.0061	U	U	.0062	U	U
1,4-Dichlorobenzene	mg/kg	.0061	U	UJ	.0062	U	UJ
2-Butanone	mg/kg	.0035	J	J	.025	U	R
2-Hexanone	mg/kg	.024	U	U	.025	U	U
4-Methyl-2-pentanone	mg/kg	.024	U	U	.025	U	U
Acetone	mg/kg	.017	J B	B	.017	J B	B
Benzene	mg/kg	.0061	U	U	.0062	U	U
Bromobenzene	mg/kg	.0061	U	U	.0062	U	U
Bromochloromethane	mg/kg	.0061	U	U	.0062	U	U
Bromodichloromethane	mg/kg	.0061	U	U	.0062	U	U
Bromoform	mg/kg	.0061	U	U	.0062	U	U
Bromomethane	mg/kg	.0018	J B	B	.0019	J B	B

	Location Code:	PPMP-174-DEP01			PPMP-174-GP01			PPMP-174-GP02			PPMP-174-GP03		
	Associated Site:	PPMP-174			PPMP-174			PPMP-174			PPMP-174		
	Sample No:	KU0011			KU0001			KU0003			KU0005		
	Sample Date:	09-MAR-99			29-JAN-99			29-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	0 - 1			0 - 1			0 - 1			0 - 1		
Lab Method													
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES													
SW8260_S													
Carbon disulfide	mg/kg	.0065	U	U	.0057	U	UJ	.0056	U	UJ	.0061	U	U
Carbon tetrachloride	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
Chlorobenzene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
Chloroethane	mg/kg	.013	U	U	.011	U	UJ	.011	U	UJ	.012	U	U
Chloroform	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
Chloromethane	mg/kg	.013	U	U	.011	U	U	.011	U	U	.012	U	U
Cumene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
Dibromochloromethane	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
Dibromomethane	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
Dichlorodifluoromethane	mg/kg	.013	U	U	.011	U	U	.011	U	U	.012	U	U
Ethylbenzene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
Hexachlorobutadiene	mg/kg	.0065	U	UJ	.0057	U	U	.0056	U	UJ	.0061	U	UJ
Methylene chloride	mg/kg	.0046	J B	B	.0027	J B	B	.0027	J B	B	.0028	J B	B
Naphthalene	mg/kg	.0065	U	UJ	.0057	U	U	.0056	U	UJ	.0061	U	UJ
Styrene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
Tetrachloroethene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
Toluene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
Trichloroethene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
Trichlorofluoromethane	mg/kg	.013	U	U	.011	U	UJ	.011	U	UJ	.012	U	U
Vinyl chloride	mg/kg	.013	U	U	.011	U	U	.011	U	U	.012	U	U
cis-1,2-Dichloroethene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
cis-1,3-Dichloropropene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
m,p-Xylenes	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
n-Butylbenzene	mg/kg	.0065	U	UJ	.0057	U	U	.0056	U	UJ	.0061	U	UJ
n-Propylbenzene	mg/kg	.0065	U	UJ	.0057	U	U	.0056	U	UJ	.0061	U	UJ
o-Chlorotoluene	mg/kg	.0065	U	UJ	.0057	U	U	.0056	U	UJ	.0061	U	UJ
p-Chlorotoluene	mg/kg	.0065	U	UJ	.0057	U	U	.0056	U	UJ	.0061	U	UJ
p-Cymene	mg/kg	.0065	U	UJ	.0057	U	U	.0056	U	UJ	.0061	U	UJ
sec-Butylbenzene	mg/kg	.0065	U	UJ	.0057	U	U	.0056	U	UJ	.0061	U	UJ
sec-Dichloropropane	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
tert-Butylbenzene	mg/kg	.0065	U	UJ	.0057	U	U	.0056	U	UJ	.0061	U	UJ

Summary of Validated Surface and Depositional Soil Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-GP03			PPMP-174-GP04		
	Associated Site:	PPMP-174			PPMP-174		
	Sample No:	KU0006			KU0009		
	Sample Date:	14-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	0 - 1			0 - 1		
Lab Method / *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES							
SW8260_S							
Carbon disulfide	mg/kg	.0061	U	U	.0062	U	U
Carbon tetrachloride	mg/kg	.0061	U	U	.0062	U	U
Chlorobenzene	mg/kg	.0061	U	U	.0062	U	U
Chloroethane	mg/kg	.012	U	U	.012	U	U
Chloroform	mg/kg	.0061	U	U	.0062	U	U
Chloromethane	mg/kg	.012	U	U	.012	U	U
Cumene	mg/kg	.0061	U	U	.0062	U	U
Dibromochloromethane	mg/kg	.0061	U	U	.0062	U	U
Dibromomethane	mg/kg	.0061	U	U	.0062	U	U
Dichlorodifluoromethane	mg/kg	.012	U	U	.012	U	U
Ethylbenzene	mg/kg	.0061	U	U	.0062	U	U
Hexachlorobutadiene	mg/kg	.0061	U	UJ	.0062	U	UJ
Methylene chloride	mg/kg	.0026	J B	B	.0029	J B	B
Naphthalene	mg/kg	.0061	U	UJ	.0062	U	UJ
Styrene	mg/kg	.0061	U	U	.0062	U	U
Tetrachloroethene	mg/kg	.0061	U	U	.0062	U	U
Toluene	mg/kg	.0061	U	U	.0062	U	U
Trichloroethene	mg/kg	.0061	U	U	.0062	U	U
Trichlorofluoromethane	mg/kg	.012	U	U	.012	U	U
Vinyl chloride	mg/kg	.012	U	U	.012	U	U
cis-1,2-Dichloroethene	mg/kg	.0061	U	U	.0062	U	U
cis-1,3-Dichloropropene	mg/kg	.0061	U	U	.0062	U	U
m,p-Xylenes	mg/kg	.0061	U	U	.0062	U	U
n-Butylbenzene	mg/kg	.0061	U	UJ	.0062	U	UJ
n-Propylbenzene	mg/kg	.0061	U	UJ	.0062	U	UJ
o-Chlorotoluene	mg/kg	.0061	U	UJ	.0062	U	UJ
p-Chlorotoluene	mg/kg	.0061	U	UJ	.0062	U	UJ
p-Cymene	mg/kg	.0061	U	UJ	.0062	U	UJ
sec-Butylbenzene	mg/kg	.0061	U	UJ	.0062	U	UJ
sec-Dichloropropane	mg/kg	.0061	U	U	.0062	U	U
tert-Butylbenzene	mg/kg	.0061	U	UJ	.0062	U	UJ

Summary of Validated Surface and Depositional Soil Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-DEP01			PPMP-174-GP01			PPMP-174-GP02			PPMP-174-GP03		
	Associated Site:	PPMP-174			PPMP-174			PPMP-174			PPMP-174		
	Sample No:	KU0011			KU0001			KU0003			KU0005		
	Sample Date:	09-MAR-99			29-JAN-99			29-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	0 - 1			0 - 1			0 - 1			0 - 1		
Lab Method													
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES													
SW8260_S													
trans-1,2-Dichloroethene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U
trans-1,3-Dichloropropene	mg/kg	.0065	U	U	.0057	U	U	.0056	U	U	.0061	U	U

Summary of Validated Surface and Depositional Soil Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-GP03			PPMP-174-GP04		
	Associated Site:	PPMP-174			PPMP-174		
	Sample No:	KU0006			KU0009		
	Sample Date:	14-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	0 - 1			0 - 1		
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES							
SW8260_S							
trans-1,2-Dichloroethene	mg/kg	.0061	U	U	.0062	U	U
trans-1,3-Dichloropropene	mg/kg	.0061	U	U	.0062	U	U

Summary of Validated Subsurface Soil Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-GP01			PPMP-174-GP02			PPMP-174-GP03			PPMP-174-GP04		
	Associated Site:	PPMP-174			PPMP-174			PPMP-174			PPMP-174		
	Sample No:	KU0002			KU0004			KU0008			KU0010		
	Sample Date:	29-JAN-99			29-JAN-99			14-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	9 - 12			6 - 9			1 - 3			6 - 9		
Lab Method / *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
METALS													
SW6010_S													
Aluminum	mg/kg	15100			9830			14800			7380		
Antimony	mg/kg	6.8	U	UJ	7.0	U	UJ	7.4	U	U	7.0	U	U
Arsenic	mg/kg	4.5			4.8			5.3			6.3		
Barium	mg/kg	81.5			66.4			83.6			63.2		
Beryllium	mg/kg	1.1			0.97			1.4			1.1		
Cadmium	mg/kg	0.57	U	U	0.59	U	U	0.62	U	U	0.58	U	U
Calcium	mg/kg	1380			1030			14400			629		
Chromium	mg/kg	15.5		J	13.0		J	26.0			16.2		
Cobalt	mg/kg	15.7			4.0	B	J	6.2	U	U	5.8	U	U
Copper	mg/kg	65.9			19.5			18.8			14.2		
Iron	mg/kg	39800			27000			34700			41600		
Lead	mg/kg	19.8		J	12.4		J	14.9			11.9		
Magnesium	mg/kg	7050		J	2870		J	3350			1030		
Manganese	mg/kg	258		J	35.0		J	257			744		
Nickel	mg/kg	38.4			13.9			7.4			14.3		
Potassium	mg/kg	554	B	J	385	B	J	992			275	B	J
Selenium	mg/kg	2.4			0.85			1.7			1.7		
Silver	mg/kg	1.1	U	U	1.2	U	U	2.2			2.6		
Sodium	mg/kg	109	B	B	81.6	B	B	123	B	J	54.4	B	J
Thallium	mg/kg	1.1	U	U	0.43	B	B	1.2	U	U	1.2	U	U
Vanadium	mg/kg	25.7			33.1			18.0			5.8	U	U
Zinc	mg/kg	133		J	46.3		J	32.2			35.2		
SW7471_S													
Mercury	mg/kg	0.034	B	J	0.025	B	J	0.057			0.032	B	J
SEMIVOLATILES													
SW8270_S													
1,2,4-Trichlorobenzene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
1,2-Dichlorobenzene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
1,3-Dichlorobenzene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
1,4-Dichlorobenzene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U

Summary of Validated Subsurface Soil Data

Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)

Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-GP01			PPMP-174-GP02			PPMP-174-GP03			PPMP-174-GP04		
	Associated Site:	PPMP-174			PPMP-174			PPMP-174			PPMP-174		
	Sample No:	KU0002			KU0004			KU0008			KU0010		
	Sample Date:	29-JAN-99			29-JAN-99			14-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	9 - 12			6 - 9			1 - 3			6 - 9		
Lab Method / *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES													
SW8270_S													
2,4,5-Trichlorophenol	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
2,4,6-Trichlorophenol	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
2,4-Dichlorophenol	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
2,4-Dimethylphenol	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
2,4-Dinitrophenol	mg/kg	1.8	U	U	1.9	U	U	2	U	U	1.9	U	U
2,4-Dinitrotoluene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
2,6-Dinitrotoluene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
2-Chloronaphthalene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
2-Chlorophenol	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
2-Methylnaphthalene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
2-Methylphenol	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
2-Nitroaniline	mg/kg	1.8	U	U	1.9	U	U	2	U	U	1.9	U	U
2-Nitrophenol	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
3,3'-Dichlorobenzidine	mg/kg	1.8	U	U	1.9	U	U	2	U	U	1.9	U	U
3-Nitroaniline	mg/kg	1.8	U	UJ	1.9	U	UJ	2	U	U	1.9	U	U
4,6-Dinitro-2-methylphenol	mg/kg	1.8	U	U	1.9	U	U	2	U	U	1.9	U	U
4-Bromophenyl phenyl ether	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
4-Chloro-3-methylphenol	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
4-Chloroaniline	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
4-Chlorophenyl phenyl ether	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
4-Methylphenol	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
4-Nitroaniline	mg/kg	1.8	U	UJ	1.9	U	UJ	2	U	U	1.9	U	U
4-Nitrophenol	mg/kg	1.8	U	U	1.9	U	U	2	U	U	1.9	U	U
Acenaphthene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Acenaphthylene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Anthracene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Benzo(a)anthracene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Benzo(a)pyrene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Benzo(b)fluoranthene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Benzo(ghi)perylene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Benzo(k)fluoranthene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U

Summary of Validated Subsurface Soil Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-GP01			PPMP-174-GP02			PPMP-174-GP03			PPMP-174-GP04		
	Associated Site:	PPMP-174			PPMP-174			PPMP-174			PPMP-174		
	Sample No:	KU0002			KU0004			KU0008			KU0010		
	Sample Date:	29-JAN-99			29-JAN-99			14-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	9 - 12			6 - 9			1 - 3			6 - 9		
Lab Method													
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES													
SW8270_S													
Butyl benzyl phthalate	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Carbazole	mg/kg	.38	U	UJ	.39	U	UJ	.41	U	U	.39	U	U
Chrysene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Di-n-butyl phthalate	mg/kg	.38	U	U	.39	U	U	.067	J B	B	.049	J B	B
Di-n-octyl phthalate	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Dibenz(a,h)anthracene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Dibenzofuran	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Diethyl phthalate	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Dimethyl phthalate	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Fluoranthene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Fluorene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Hexachlorobenzene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Hexachlorobutadiene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Hexachlorocyclopentadiene	mg/kg	1.8	U	U	1.9	U	U	2	U	UJ	1.9	U	UJ
Hexachloroethane	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Indeno(1,2,3-cd)pyrene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Isophorone	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Naphthalene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Nitrobenzene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Pentachlorophenol	mg/kg	1.8	U	U	1.9	U	U	2	U	U	1.9	U	U
Phenanthrene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Phenol	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
Pyrene	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
bis(2-Chloroethoxy)methane	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
bis(2-Chloroethyl)ether	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
bis(2-Chloroisopropyl)ether	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
bis(2-Ethylhexyl)phthalate	mg/kg	.38	U	U	.069	J B	B	.082	J B	B	.2	J B	B
n-Nitroso-di-n-propylamine	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U
n-Nitrosodiphenylamine	mg/kg	.38	U	U	.39	U	U	.41	U	U	.39	U	U

Summary of Validated Subsurface Soil Data

Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)

Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-GP01			PPMP-174-GP02			PPMP-174-GP03			PPMP-174-GP04		
	Associated Site:	PPMP-174			PPMP-174			PPMP-174			PPMP-174		
	Sample No:	KU0002			KU0004			KU0008			KU0010		
	Sample Date:	29-JAN-99			29-JAN-99			14-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	9 - 12			6 - 9			1 - 3			6 - 9		
Lab Method / *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES													
SW8260_S													
1,1,1,2-Tetrachloroethane	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
1,1,1-Trichloroethane	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
1,1,2,2-Tetrachloroethane	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
1,1,2-Trichloroethane	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
1,1-Dichloroethane	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
1,1-Dichloroethene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
1,1-Dichloropropene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
1,2,3-Trichlorobenzene	mg/kg	.0057	U	UJ	.0059	U	UJ	.0062	U	UJ	.0058	U	UJ
1,2,3-Trichloropropane	mg/kg	.0057	U	U	.0059	U	U	.0062	U	UJ	.0058	U	UJ
1,2,4-Trichlorobenzene	mg/kg	.0057	U	UJ	.0059	U	UJ	.0062	U	UJ	.0058	U	UJ
1,2,4-Trimethylbenzene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	UJ	.0058	U	UJ
1,2-Dibromo-3-Chloropropane	mg/kg	.011	U	U	.012	U	U	.012	U	R	.012	U	R
1,2-Dibromoethane	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
1,2-Dichlorobenzene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	UJ	.0058	U	UJ
1,2-Dichloroethane	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
1,2-Dichloropropane	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
1,2-Dimethylbenzene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
1,3,5-Trimethylbenzene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	UJ	.0058	U	UJ
1,3-Dichlorobenzene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	UJ	.0058	U	UJ
1,3-Dichloropropane	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
1,4-Dichlorobenzene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	UJ	.0058	U	UJ
2-Butanone	mg/kg	.023	U	R	.023	U	R	.025	U	R	.023	U	R
2-Hexanone	mg/kg	.023	U	U	.023	U	U	.025	U	U	.023	U	U
4-Methyl-2-pentanone	mg/kg	.023	U	U	.023	U	U	.025	U	U	.023	U	U
Acetone	mg/kg	.034		J	.38	J D B	B	.13	B	J	1.8	D B	B
Benzene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Bromobenzene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Bromochloromethane	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Bromodichloromethane	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Bromoform	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Bromomethane	mg/kg	.011	U	R	.012	U	R	.0022	J B	B	.0018	J B	B

Summary of Validated Subsurface Soil Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-GP01			PPMP-174-GP02			PPMP-174-GP03			PPMP-174-GP04		
	Associated Site:	PPMP-174			PPMP-174			PPMP-174			PPMP-174		
	Sample No:	KU0002			KU0004			KU0008			KU0010		
	Sample Date:	29-JAN-99			29-JAN-99			14-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	9 - 12			6 - 9			1 - 3			6 - 9		
Lab Method / *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES													
SW8260_S													
Carbon disulfide	mg/kg	.0057	U	UJ	.0059	U	UJ	.0062	U	U	.0058	U	U
Carbon tetrachloride	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Chlorobenzene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Chloroethane	mg/kg	.011	U	UJ	.012	U	UJ	.012	U	U	.012	U	U
Chloroform	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Chloromethane	mg/kg	.011	U	U	.012	U	U	.012	U	U	.012	U	U
Cumene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Dibromochloromethane	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Dibromomethane	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Dichlorodifluoromethane	mg/kg	.011	U	U	.012	U	U	.012	U	U	.012	U	U
Ethylbenzene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Hexachlorobutadiene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	UJ	.0058	U	UJ
Methylene chloride	mg/kg	.003	J B	B	.0033	J B	B	.0034	J B	B	.0032	J B	B
Naphthalene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	UJ	.0058	U	UJ
Styrene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Tetrachloroethene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Toluene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Trichloroethene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
Trichlorofluoromethane	mg/kg	.011	U	UJ	.012	U	UJ	.012	U	U	.012	U	U
Vinyl chloride	mg/kg	.011	U	U	.012	U	U	.012	U	U	.012	U	U
cis-1,2-Dichloroethene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
cis-1,3-Dichloropropene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
m,p-Xylenes	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
n-Butylbenzene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	UJ	.0058	U	UJ
n-Propylbenzene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	UJ	.0058	U	UJ
o-Chlorotoluene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	UJ	.0058	U	UJ
p-Chlorotoluene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	UJ	.0058	U	UJ
p-Cymene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	UJ	.0058	U	UJ
sec-Butylbenzene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	UJ	.0058	U	UJ
sec-Dichloropropane	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
tert-Butylbenzene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	UJ	.0058	U	UJ

Summary of Validated Subsurface Soil Data

Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)

Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-GP01			PPMP-174-GP02			PPMP-174-GP03			PPMP-174-GP04		
	Associated Site:	PPMP-174			PPMP-174			PPMP-174			PPMP-174		
	Sample No:	KU0002			KU0004			KU0008			KU0010		
	Sample Date:	29-JAN-99			29-JAN-99			14-JAN-99			14-JAN-99		
User Test Group	*Sample Depth:*	9 - 12			6 - 9			1 - 3			6 - 9		
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES													
SW8260_S													
trans-1,2-Dichloroethene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U
trans-1,3-Dichloropropene	mg/kg	.0057	U	U	.0059	U	U	.0062	U	U	.0058	U	U

Summary of Validated Groundwater Data

Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)

Fort McClellan, Alabama

Report Date: 07/05/00

		Location Code:	PPMP-174-GP03			PPMP-174-GP03			PPMP-174-GP04		
		Associated Site:	PPMP-174			PPMP-174			PPMP-174		
		Sample No:	KU3001			KU3002			KU3004		
		Sample Date:	24-FEB-99			24-FEB-99			24-FEB-99		
User Test Group / Lab Method / Parameter	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
METALS											
SW6010_W											
Aluminum		mg/L	.0781	B	J	.0757	B	J	.0916	B	J
Antimony		mg/L	.06	U	U	.06	U	U	.06	U	U
Arsenic		mg/L	.0034	B	J	.0034	B	J	.01	U	U
Barium		mg/L	.0372	B	J	.0365	B	J	.0272	B	J
Beryllium		mg/L	.005	U	U	.005	U	U	.005	U	U
Cadmium		mg/L	.005	U	U	.005	U	U	.005	U	U
Calcium		mg/L	199			201			120		
Chromium		mg/L	.01	U	U	.01	U	U	.01	U	U
Cobalt		mg/L	.05	U	U	.05	U	U	.05	U	U
Copper		mg/L	.025	U	U	.025	U	U	.025	U	U
Iron		mg/L	11.2			12.1			1.06		
Lead		mg/L	.003	U	U	.003	U	U	.003	U	U
Magnesium		mg/L	180			181			103		
Manganese		mg/L	7.04			7.21			8.7		
Nickel		mg/L	.04	U	U	.04	U	U	.04	U	U
Potassium		mg/L	.952	B	B	1.05	B	B	1.19	B	B
Selenium		mg/L	.005	U	U	.005	U	U	.005	U	U
Silver		mg/L	.01	U	U	.01	U	U	.01	U	U
Sodium		mg/L	73.8			74.4			58.8		
Thallium		mg/L	.01	U	U	.01	U	U	.01	U	U
Vanadium		mg/L	.05	U	U	.05	U	U	.05	U	U
Zinc		mg/L	.02	U	U	.02	U	U	.02	U	U
SW7470_W											
Mercury		mg/L	.0002	U	U	.0002	U	U	.000063	B	J
SEMIVOLATILES											
SW8270_W											
1,2,4-Trichlorobenzene		mg/L	.01	U	U	.01	U	U	.01	U	U
1,2-Dichlorobenzene		mg/L	.01	U	U	.01	U	U	.01	U	U
1,3-Dichlorobenzene		mg/L	.01	U	U	.01	U	U	.01	U	U
1,4-Dichlorobenzene		mg/L	.01	U	U	.01	U	U	.01	U	U

Summary of Validated Groundwater Data

Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)

Fort McClellan, Alabama

Report Date: 07/05/00

		Location Code:	PPMP-174-GP03			PPMP-174-GP03			PPMP-174-GP04		
		Associated Site:	PPMP-174			PPMP-174			PPMP-174		
		Sample No:	KU3001			KU3002			KU3004		
		Sample Date:	24-FEB-99			24-FEB-99			24-FEB-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES											
SW8270_W											
2,4,5-Trichlorophenol		mg/L	.01	U	U	.01	U	U	.01	U	U
2,4,6-Trichlorophenol		mg/L	.01	U	U	.01	U	U	.01	U	U
2,4-Dichlorophenol		mg/L	.01	U	U	.01	U	U	.01	U	U
2,4-Dimethylphenol		mg/L	.01	U	U	.01	U	U	.01	U	U
2,4-Dinitrophenol		mg/L	.05	U	U	.05	U	U	.05	U	U
2,4-Dinitrotoluene		mg/L	.01	U	U	.01	U	U	.01	U	U
2,6-Dinitrotoluene		mg/L	.01	U	U	.01	U	U	.01	U	U
2-Chloronaphthalene		mg/L	.01	U	U	.01	U	U	.01	U	U
2-Chlorophenol		mg/L	.01	U	U	.01	U	U	.01	U	U
2-Methylnaphthalene		mg/L	.01	U	U	.01	U	U	.01	U	U
2-Methylphenol		mg/L	.01	U	U	.01	U	U	.01	U	U
2-Nitroaniline		mg/L	.05	U	U	.05	U	U	.05	U	U
2-Nitrophenol		mg/L	.01	U	U	.01	U	U	.01	U	U
3,3'-Dichlorobenzidine		mg/L	.05	U	U	.05	U	U	.05	U	U
3-Nitroaniline		mg/L	.05	U	U	.05	U	U	.05	U	U
4,6-Dinitro-2-methylphenol		mg/L	.05	U	U	.05	U	U	.05	U	U
4-Bromophenyl phenyl ether		mg/L	.01	U	U	.01	U	U	.01	U	U
4-Chloro-3-methylphenol		mg/L	.01	U	U	.01	U	U	.01	U	U
4-Chloroaniline		mg/L	.01	U	U	.01	U	U	.01	U	U
4-Chlorophenyl phenyl ether		mg/L	.01	U	U	.01	U	U	.01	U	U
4-Methylphenol		mg/L	.01	U	U	.01	U	U	.01	U	U
4-Nitroaniline		mg/L	.05	U	U	.05	U	U	.05	U	U
4-Nitrophenol		mg/L	.05	U	U	.05	U	U	.05	U	U
Acenaphthene		mg/L	.01	U	U	.01	U	U	.01	U	U
Acenaphthylene		mg/L	.01	U	U	.01	U	U	.01	U	U
Anthracene		mg/L	.01	U	U	.01	U	U	.01	U	U
Benzo(a)anthracene		mg/L	.01	U	U	.01	U	U	.01	U	U
Benzo(a)pyrene		mg/L	.01	U	U	.01	U	U	.01	U	U
Benzo(b)fluoranthene		mg/L	.01	U	U	.01	U	U	.01	U	U
Benzo(ghi)perylene		mg/L	.01	U	U	.01	U	U	.01	U	U
Benzo(k)fluoranthene		mg/L	.01	U	U	.01	U	U	.01	U	U

Summary of Validated Groundwater Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

		Location Code:	PPMP-174-GP03			PPMP-174-GP03			PPMP-174-GP04		
		Associated Site:	PPMP-174			PPMP-174			PPMP-174		
		Sample No:	KU3001			KU3002			KU3004		
		Sample Date:	24-FEB-99			24-FEB-99			24-FEB-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES											
SW8270_W											
Butyl benzyl phthalate		mg/L	.01	U	U	.01	U	U	.01	U	U
Carbazole		mg/L	.01	U	U	.01	U	U	.01	U	U
Chrysene		mg/L	.01	U	U	.01	U	U	.01	U	U
Di-n-butyl phthalate		mg/L	.01	U	U	.01	U	U	.01	U	U
Di-n-octyl phthalate		mg/L	.01	U	U	.01	U	U	.01	U	U
Dibenz(a,h)anthracene		mg/L	.01	U	U	.01	U	U	.01	U	U
Dibenzofuran		mg/L	.01	U	U	.01	U	U	.01	U	U
Diethyl phthalate		mg/L	.01	U	U	.01	U	U	.01	U	U
Dimethyl phthalate		mg/L	.01	U	U	.01	U	U	.01	U	U
Fluoranthene		mg/L	.01	U	U	.01	U	U	.01	U	U
Fluorene		mg/L	.01	U	U	.01	U	U	.01	U	U
Hexachlorobenzene		mg/L	.01	U	U	.01	U	U	.01	U	U
Hexachlorobutadiene		mg/L	.01	U	U	.01	U	U	.01	U	U
Hexachlorocyclopentadiene		mg/L	.05	U	U	.05	U	U	.05	U	U
Hexachloroethane		mg/L	.01	U	U	.01	U	U	.01	U	U
Indeno(1,2,3-cd)pyrene		mg/L	.01	U	U	.01	U	U	.01	U	U
Isophorone		mg/L	.01	U	U	.01	U	U	.01	U	U
Naphthalene		mg/L	.01	U	U	.01	U	U	.01	U	U
Nitrobenzene		mg/L	.01	U	U	.01	U	U	.01	U	U
Pentachlorophenol		mg/L	.05	U	U	.05	U	U	.05	U	U
Phenanthrene		mg/L	.01	U	U	.01	U	U	.01	U	U
Phenol		mg/L	.01	U	U	.01	U	U	.01	U	U
Pyrene		mg/L	.01	U	U	.01	U	U	.01	U	U
bis(2-Chloroethoxy)methane		mg/L	.01	U	U	.01	U	U	.01	U	U
bis(2-Chloroethyl)ether		mg/L	.01	U	U	.01	U	U	.01	U	U
bis(2-Chloroisopropyl)ether		mg/L	.01	U	U	.01	U	U	.01	U	U
bis(2-Ethylhexyl)phthalate		mg/L	.01	U	U	.01	U	U	.01	U	U
n-Nitroso-di-n-propylamine		mg/L	.01	U	U	.01	U	U	.01	U	U
n-Nitrosodiphenylamine		mg/L	.01	U	U	.01	U	U	.01	U	U

Summary of Validated Groundwater Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:		PPMP-174-GP03			PPMP-174-GP03			PPMP-174-GP04		
	Associated Site:		PPMP-174			PPMP-174			PPMP-174		
	Sample No:		KU3001			KU3002			KU3004		
	Sample Date:		24-FEB-99			24-FEB-99			24-FEB-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES											
SW8260_W											
1,1,1,2-Tetrachloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,1,1-Trichloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,1,2,2-Tetrachloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,1,2-Trichloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,1-Dichloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,1-Dichloroethene		mg/L	.001	U	U	.001	U	U	.001	U	U
1,1-Dichloropropene		mg/L	.001	U	U	.001	U	U	.001	U	U
1,2,3-Trichlorobenzene		mg/L	.001	U	U	.001	U	U	.0003	J B	B
1,2,3-Trichloropropane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,2,4-Trichlorobenzene		mg/L	.001	U	U	.001	U	U	.0002	J B	B
1,2,4-Trimethylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
1,2-Dibromo-3-Chloropropane		mg/L	.002	U	R	.002	U	R	.002	U	R
1,2-Dibromoethane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,2-Dichlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
1,2-Dichloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,2-Dichloropropane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,2-Dimethylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
1,3,5-Trimethylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
1,3-Dichlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
1,3-Dichloropropane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,4-Dichlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
2-Butanone		mg/L	.005	U	R	.005	U	R	.005	U	R
2-Hexanone		mg/L	.005	U	U	.005	U	U	.005	U	U
4-Methyl-2-pentanone		mg/L	.005	U	U	.005	U	U	.005	U	U
Acetone		mg/L	.01	U	R	.0019	J B	B	.0014	J B	B
Benzene		mg/L	.001	U	U	.001	U	U	.001	U	U
Bromobenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
Bromochloromethane		mg/L	.001	U	R	.001	U	R	.001	U	R
Bromodichloromethane		mg/L	.001	U	U	.001	U	U	.001	U	U
Bromoform		mg/L	.001	U	U	.001	U	U	.001	U	U
Bromomethane		mg/L	.002	U	U	.002	U	U	.002	U	U

Summary of Validated Groundwater Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

		Location Code:	PPMP-174-GP03			PPMP-174-GP03			PPMP-174-GP04		
		Associated Site:	PPMP-174			PPMP-174			PPMP-174		
		Sample No:	KU3001			KU3002			KU3004		
		Sample Date:	24-FEB-99			24-FEB-99			24-FEB-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES											
SW8260_W											
Carbon disulfide		mg/L	.001	U	U	.001	U	U	.001	U	U
Carbon tetrachloride		mg/L	.001	U	U	.001	U	U	.001	U	U
Chlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
Chloroethane		mg/L	.002	U	U	.002	U	U	.002	U	U
Chloroform		mg/L	.001	U	U	.001	U	U	.001	U	U
Chloromethane		mg/L	.002	U	U	.002	U	U	.002	U	U
Cumene		mg/L	.001	U	U	.001	U	U	.001	U	U
Dibromochloromethane		mg/L	.001	U	U	.001	U	U	.001	U	U
Dibromomethane		mg/L	.001	U	R	.001	U	R	.001	U	R
Dichlorodifluoromethane		mg/L	.002	U	U	.002	U	U	.002	U	U
Ethylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
Hexachlorobutadiene		mg/L	.001	U	U	.001	U	U	.001	U	U
Methylene chloride		mg/L	.001	U	U	.001	U	U	.001	U	U
Naphthalene		mg/L	.001	U	U	.001	U	U	.00057	J B	B
Styrene		mg/L	.001	U	U	.001	U	U	.001	U	U
Tetrachloroethene		mg/L	.001	U	U	.001	U	U	.001	U	U
Toluene		mg/L	.001	U	U	.001	U	U	.001	U	U
Trichloroethene		mg/L	.001	U	U	.001	U	U	.001	U	U
Trichlorofluoromethane		mg/L	.002	U	U	.002	U	U	.002	U	U
Vinyl chloride		mg/L	.002	U	U	.002	U	U	.002	U	U
cis-1,2-Dichloroethene		mg/L	.001	U	U	.001	U	U	.001	U	U
cis-1,3-Dichloropropene		mg/L	.001	U	U	.001	U	U	.001	U	U
m,p-Xylenes		mg/L	.001	U	U	.001	U	U	.001	U	U
n-Butylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
n-Propylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
o-Chlorotoluene		mg/L	.001	U	U	.001	U	U	.001	U	U
p-Chlorotoluene		mg/L	.001	U	U	.001	U	U	.001	U	U
p-Cymene		mg/L	.001	U	U	.001	U	U	.001	U	U
sec-Butylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
sec-Dichloropropane		mg/L	.001	U	U	.001	U	U	.001	U	U
tert-Butylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U

Summary of Validated Groundwater Data

Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)

Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:			PPMP-174-GP03			PPMP-174-GP03			PPMP-174-GP04		
	Associated Site:			PPMP-174			PPMP-174			PPMP-174		
	Sample No:			KU3001			KU3002			KU3004		
	Sample Date:			24-FEB-99			24-FEB-99			24-FEB-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES											
SW8260_W											
trans-1,2-Dichloroethene		mg/L	.001	U	U	.001	U	U	.001	U	U
trans-1,3-Dichloropropene		mg/L	.001	U	U	.001	U	U	.001	U	U

Summary of Validated Surface Water Data

Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)

Fort McClellan, Alabama

Report Date: 07/05/00

		Location Code:	PPMP-174-SW/SD01			PPMP-174-SW/SD01			PPMP-174-SW/SD02		
		Associated Site:	PPMP-174			PPMP-174			PPMP-174		
		Sample No:	KU2001			KU2002			KU2004		
		Sample Date:	27-JAN-99			27-JAN-99			08-FEB-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
METALS											
SW6010_W											
Aluminum		mg/L	.37			.29			.0721	B	B
Antimony		mg/L	.06	U	U	.06	U	U	.06	U	U
Arsenic		mg/L	.01	U	U	.01	U	U	.01	U	U
Barium		mg/L	.029	B	J	.0286	B	J	.0371	B	J
Beryllium		mg/L	.005	U	U	.005	U	U	.005	U	U
Cadmium		mg/L	.005	U	U	.005	U	U	.005	U	U
Calcium		mg/L	48			48.6			95.2		
Chromium		mg/L	.01	U	U	.01	U	U	.01	U	U
Cobalt		mg/L	.05	U	U	.05	U	U	.05	U	U
Copper		mg/L	.025	U	U	.025	U	U	.025	U	U
Iron		mg/L	.41			.306			.101		B
Lead		mg/L	.003	U	U	.003	U	U	.003	U	U
Magnesium		mg/L	13			13.3			54.3		
Manganese		mg/L	.0413			.0374			.0962		
Nickel		mg/L	.04	U	U	.04	U	U	.04	U	U
Potassium		mg/L	1.7	B	J	1.81	B	J	1.47	B	B
Selenium		mg/L	.005	U	U	.005	U	U	.005	U	U
Silver		mg/L	.01	U	U	.01	U	U	.01	U	U
Sodium		mg/L	3.26	B	J	3.31	B	J	17.6		
Thallium		mg/L	.01	U	U	.01	U	U	.01	U	U
Vanadium		mg/L	.05	U	U	.05	U	U	.05	U	U
Zinc		mg/L	.0688		J	.0231		J	.02	U	U
SW7470_W											
Mercury		mg/L	.000046	B	J	.0002	U	U	.000049	B	B
SEMIVOLATILES											
SW8270_W											
1,2,4-Trichlorobenzene		mg/L	.01	U	U	.01	U	U	.01	U	U
1,2-Dichlorobenzene		mg/L	.01	U	U	.01	U	U	.01	U	U
1,3-Dichlorobenzene		mg/L	.01	U	U	.01	U	U	.01	U	U
1,4-Dichlorobenzene		mg/L	.01	U	U	.01	U	U	.01	U	U

Summary of Validated Surface Water Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

		Location Code:	PPMP-174-SW/SD01			PPMP-174-SW/SD01			PPMP-174-SW/SD02		
		Associated Site:	PPMP-174			PPMP-174			PPMP-174		
		Sample No:	KU2001			KU2002			KU2004		
		Sample Date:	27-JAN-99			27-JAN-99			08-FEB-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES											
SW8270_W											
2,4,5-Trichlorophenol		mg/L	.01	U	U	.01	U	U	.01	U	U
2,4,6-Trichlorophenol		mg/L	.01	U	U	.01	U	U	.01	U	U
2,4-Dichlorophenol		mg/L	.01	U	U	.01	U	U	.01	U	U
2,4-Dimethylphenol		mg/L	.01	U	U	.01	U	U	.01	U	U
2,4-Dinitrophenol		mg/L	.05	U	U	.05	U	U	.05	U	U
2,4-Dinitrotoluene		mg/L	.01	U	U	.01	U	U	.01	U	U
2,6-Dinitrotoluene		mg/L	.01	U	U	.01	U	U	.01	U	U
2-Chloronaphthalene		mg/L	.01	U	U	.01	U	U	.01	U	U
2-Chlorophenol		mg/L	.01	U	U	.01	U	U	.01	U	U
2-Methylnaphthalene		mg/L	.01	U	U	.01	U	U	.01	U	U
2-Methylphenol		mg/L	.01	U	U	.01	U	U	.01	U	U
2-Nitroaniline		mg/L	.05	U	U	.05	U	U	.05	U	U
2-Nitrophenol		mg/L	.01	U	U	.01	U	U	.01	U	U
3,3'-Dichlorobenzidine		mg/L	.05	U	U	.05	U	U	.05	U	U
3-Nitroaniline		mg/L	.05	U	U	.05	U	U	.05	U	U
4,6-Dinitro-2-methylphenol		mg/L	.05	U	U	.05	U	U	.05	U	U
4-Bromophenyl phenyl ether		mg/L	.01	U	U	.01	U	U	.01	U	U
4-Chloro-3-methylphenol		mg/L	.01	U	U	.01	U	U	.01	U	U
4-Chloroaniline		mg/L	.01	U	U	.01	U	U	.01	U	U
4-Chlorophenyl phenyl ether		mg/L	.01	U	U	.01	U	U	.01	U	U
4-Methylphenol		mg/L	.01	U	U	.01	U	U	.01	U	U
4-Nitroaniline		mg/L	.05	U	U	.05	U	U	.05	U	U
4-Nitrophenol		mg/L	.05	U	UJ	.05	U	UJ	.05	U	U
Acenaphthene		mg/L	.01	U	U	.01	U	U	.01	U	U
Acenaphthylene		mg/L	.01	U	U	.01	U	U	.01	U	U
Anthracene		mg/L	.01	U	U	.01	U	U	.01	U	U
Benzo(a)anthracene		mg/L	.01	U	U	.01	U	U	.01	U	U
Benzo(a)pyrene		mg/L	.01	U	U	.01	U	U	.01	U	U
Benzo(b)fluoranthene		mg/L	.01	U	U	.01	U	U	.01	U	U
Benzo(ghi)perylene		mg/L	.01	U	U	.01	U	U	.01	U	U
Benzo(k)fluoranthene		mg/L	.01	U	U	.01	U	U	.01	U	U

Summary of Validated Surface Water Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

		Location Code:	PPMP-174-SW/SD01			PPMP-174-SW/SD01			PPMP-174-SW/SD02		
		Associated Site:	PPMP-174			PPMP-174			PPMP-174		
		Sample No:	KU2001			KU2002			KU2004		
		Sample Date:	27-JAN-99			27-JAN-99			08-FEB-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES											
SW8270_W											
Butyl benzyl phthalate		mg/L	.01	U	U	.01	U	U	.01	U	U
Carbazole		mg/L	.01	U	U	.01	U	U	.01	U	U
Chrysene		mg/L	.01	U	U	.01	U	U	.01	U	U
Di-n-butyl phthalate		mg/L	.01	U	U	.01	U	U	.01	U	U
Di-n-octyl phthalate		mg/L	.01	U	U	.01	U	U	.01	U	U
Dibenz(a,h)anthracene		mg/L	.01	U	U	.01	U	U	.01	U	U
Dibenzofuran		mg/L	.01	U	U	.01	U	U	.01	U	U
Diethyl phthalate		mg/L	.01	U	U	.01	U	U	.01	U	U
Dimethyl phthalate		mg/L	.01	U	U	.01	U	U	.01	U	U
Fluoranthene		mg/L	.01	U	U	.01	U	U	.01	U	U
Fluorene		mg/L	.01	U	U	.01	U	U	.01	U	U
Hexachlorobenzene		mg/L	.01	U	U	.01	U	U	.01	U	U
Hexachlorobutadiene		mg/L	.01	U	U	.01	U	U	.01	U	U
Hexachlorocyclopentadiene		mg/L	.05	U	UJ	.05	U	U	.05	U	U
Hexachloroethane		mg/L	.01	U	U	.01	U	U	.01	U	U
Indeno(1,2,3-cd)pyrene		mg/L	.01	U	U	.01	U	U	.01	U	U
Isophorone		mg/L	.01	U	U	.01	U	U	.01	U	U
Naphthalene		mg/L	.01	U	U	.01	U	U	.01	U	U
Nitrobenzene		mg/L	.01	U	U	.01	U	U	.01	U	U
Pentachlorophenol		mg/L	.05	U	U	.05	U	U	.05	U	U
Phenanthrene		mg/L	.01	U	U	.01	U	U	.01	U	U
Phenol		mg/L	.01	U	U	.01	U	U	.01	U	U
Pyrene		mg/L	.01	U	U	.01	U	U	.01	U	U
bis(2-Chloroethoxy)methane		mg/L	.01	U	U	.01	U	U	.01	U	U
bis(2-Chloroethyl)ether		mg/L	.01	U	U	.01	U	U	.01	U	U
bis(2-Chloroisopropyl)ether		mg/L	.01	U	U	.01	U	U	.01	U	U
bis(2-Ethylhexyl)phthalate		mg/L	.01	U	U	.0079	J	J	.01	U	U
n-Nitroso-di-n-propylamine		mg/L	.01	U	U	.01	U	U	.01	U	U
n-Nitrosodiphenylamine		mg/L	.01	U	U	.01	U	U	.01	U	U

Summary of Validated Surface Water Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

		Location Code:	PPMP-174-SW/SD01			PPMP-174-SW/SD01			PPMP-174-SW/SD02		
		Associated Site:	PPMP-174			PPMP-174			PPMP-174		
		Sample No:	KU2001			KU2002			KU2004		
		Sample Date:	27-JAN-99			27-JAN-99			08-FEB-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES											
SW8260_W											
1,1,1,2-Tetrachloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,1,1-Trichloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,1,2,2-Tetrachloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,1,2-Trichloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,1-Dichloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,1-Dichloroethene		mg/L	.001	U	U	.001	U	U	.001	U	U
1,1-Dichloropropene		mg/L	.001	U	U	.001	U	U	.001	U	U
1,2,3-Trichlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	UJ
1,2,3-Trichloropropane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,2,4-Trichlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	UJ
1,2,4-Trimethylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
1,2-Dibromo-3-Chloropropane		mg/L	.002	U	R	.002	U	R	.002	U	R
1,2-Dibromoethane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,2-Dichlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	UJ
1,2-Dichloroethane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,2-Dichloropropane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,2-Dimethylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
1,3,5-Trimethylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
1,3-Dichlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
1,3-Dichloropropane		mg/L	.001	U	U	.001	U	U	.001	U	U
1,4-Dichlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	UJ
2-Butanone		mg/L	.005	U	R	.005	U	R	.005	U	R
2-Hexanone		mg/L	.005	U	U	.005	U	U	.005	U	UJ
4-Methyl-2-pentanone		mg/L	.005	U	U	.005	U	U	.005	U	UJ
Acetone		mg/L	.0055	J	J	.0059	J	J	.0021	J B	B
Benzene		mg/L	.001	U	U	.001	U	U	.001	U	U
Bromobenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
Bromochloromethane		mg/L	.001	U	U	.001	U	U	.001	U	R
Bromodichloromethane		mg/L	.001	U	U	.001	U	U	.001	U	U
Bromoform		mg/L	.001	U	U	.001	U	U	.001	U	U
Bromomethane		mg/L	.002	U	U	.002	U	U	.002	U	U

Summary of Validated Surface Water Data

Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)

Fort McClellan, Alabama

Report Date: 07/05/00

		Location Code:	PPMP-174-SW/SD01			PPMP-174-SW/SD01			PPMP-174-SW/SD02		
		Associated Site:	PPMP-174			PPMP-174			PPMP-174		
		Sample No:	KU2001			KU2002			KU2004		
		Sample Date:	27-JAN-99			27-JAN-99			08-FEB-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES											
SW8260_W											
Carbon disulfide		mg/L	.001	U	U	.001	U	U	.001	U	U
Carbon tetrachloride		mg/L	.001	U	U	.001	U	U	.001	U	U
Chlorobenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
Chloroethane		mg/L	.002	U	U	.002	U	U	.002	U	U
Chloroform		mg/L	.001	U	U	.001	U	U	.001	U	U
Chloromethane		mg/L	.002	U	U	.002	U	U	.002	U	U
Cumene		mg/L	.001	U	U	.001	U	U	.001	U	U
Dibromochloromethane		mg/L	.001	U	U	.001	U	U	.001	U	U
Dibromomethane		mg/L	.001	U	U	.001	U	U	.001	U	R
Dichlorodifluoromethane		mg/L	.002	U	U	.002	U	U	.002	U	UJ
Ethylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
Hexachlorobutadiene		mg/L	.001	U	U	.001	U	U	.001	U	UJ
Methylene chloride		mg/L	.0008	J B	B	.00082	J B	B	.001	U	UJ
Naphthalene		mg/L	.001	U	U	.001	U	U	.001	U	UJ
Styrene		mg/L	.001	U	U	.001	U	U	.001	U	U
Tetrachloroethene		mg/L	.001	U	U	.001	U	U	.001	U	U
Toluene		mg/L	.001	U	U	.001	U	U	.001	U	U
Trichloroethene		mg/L	.001	U	U	.001	U	U	.001	U	U
Trichlorofluoromethane		mg/L	.002	U	U	.002	U	U	.002	U	U
Vinyl chloride		mg/L	.002	U	U	.002	U	U	.002	U	U
cis-1,2-Dichloroethene		mg/L	.001	U	U	.001	U	U	.001	U	U
cis-1,3-Dichloropropene		mg/L	.001	U	U	.001	U	U	.001	U	U
m,p-Xylenes		mg/L	.001	U	U	.001	U	U	.001	U	U
n-Butylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	UJ
n-Propylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U
o-Chlorotoluene		mg/L	.001	U	U	.001	U	U	.001	U	U
p-Chlorotoluene		mg/L	.001	U	U	.001	U	U	.001	U	U
p-Cymene		mg/L	.001	U	U	.001	U	U	.001	U	UJ
sec-Butylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	UJ
sec-Dichloropropane		mg/L	.001	U	U	.001	U	U	.001	U	U
tert-Butylbenzene		mg/L	.001	U	U	.001	U	U	.001	U	U

Summary of Validated Surface Water Data

Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)

Fort McClellan, Alabama

Report Date: 07/05/00

		Location Code:	PPMP-174-SW/SD01			PPMP-174-SW/SD01			PPMP-174-SW/SD02		
		Associated Site:	PPMP-174			PPMP-174			PPMP-174		
		Sample No:	KU2001			KU2002			KU2004		
		Sample Date:	27-JAN-99			27-JAN-99			08-FEB-99		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES											
SW8260_W											
trans-1,2-Dichloroethene		mg/L	.001	U	U	.001	U	U	.001	U	U
trans-1,3-Dichloropropene		mg/L	.001	U	U	.001	U	U	.001	U	U

Summary of Validated Sediment Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-SW/SD01			PPMP-174-SW/SD02		
	Associated Site:	PPMP-174			PPMP-174		
	Sample No:	KU1001			KU1002		
	Sample Date:	27-JAN-99			08-FEB-99		
User Test Group	*Sample Depth:*	0 - .5			0 - .5		
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
METALS							
SW6010_S							
Aluminum	mg/kg	6540			3060		
Antimony	mg/kg	7.7	U	U	7.4	U	U
Arsenic	mg/kg	7.8			2.8		
Barium	mg/kg	25.9			14.5	B	J
Beryllium	mg/kg	0.74			0.25	B	J
Cadmium	mg/kg	0.64	U	U	0.62	U	U
Calcium	mg/kg	1170			11500		
Chromium	mg/kg	33.8			8.6		
Cobalt	mg/kg	4.1	B	J	2.3	B	J
Copper	mg/kg	16.8			8.9		
Iron	mg/kg	37800			10000		
Lead	mg/kg	18.3			9.9		
Magnesium	mg/kg	1680			6520		
Manganese	mg/kg	332			86.1		
Nickel	mg/kg	10.1			4.6	B	J
Potassium	mg/kg	329	B	J	175	B	J
Selenium	mg/kg	2.2			0.65		
Silver	mg/kg	1.3	U	U	1.2	U	U
Sodium	mg/kg	91.0	B	B	58.2	B	B
Thallium	mg/kg	1.3	U	U	1.2	U	U
Vanadium	mg/kg	31.9			11.8		
Zinc	mg/kg	77.7			36.3		
SW7471_S							
Mercury	mg/kg	0.019	B	J	0.024	B	B
SEMIVOLATILES							
SW8270_S							
1,2,4-Trichlorobenzene	mg/kg	.43	U	U	.41	U	U
1,2-Dichlorobenzene	mg/kg	.43	U	U	.41	U	U
1,3-Dichlorobenzene	mg/kg	.43	U	U	.41	U	U
1,4-Dichlorobenzene	mg/kg	.43	U	U	.41	U	U

Summary of Validated Sediment Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-SW/SD01			PPMP-174-SW/SD02		
	Associated Site:	PPMP-174			PPMP-174		
	Sample No:	KU1001			KU1002		
	Sample Date:	27-JAN-99			08-FEB-99		
User Test Group	*Sample Depth:*	0 - .5			0 - .5		
Lab Method / *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
SEMIVOLATILES							
SW8270_S							
2,4,5-Trichlorophenol	mg/kg	.43	U	U	.41	U	U
2,4,6-Trichlorophenol	mg/kg	.43	U	U	.41	U	U
2,4-Dichlorophenol	mg/kg	.43	U	U	.41	U	U
2,4-Dimethylphenol	mg/kg	.43	U	U	.41	U	U
2,4-Dinitrophenol	mg/kg	2.1	U	UJ	2	U	U
2,4-Dinitrotoluene	mg/kg	.43	U	U	.41	U	U
2,6-Dinitrotoluene	mg/kg	.43	U	U	.41	U	U
2-Chloronaphthalene	mg/kg	.43	U	U	.41	U	U
2-Chlorophenol	mg/kg	.43	U	U	.41	U	U
2-Methylnaphthalene	mg/kg	.43	U	U	.41	U	U
2-Methylphenol	mg/kg	.43	U	U	.41	U	U
2-Nitroaniline	mg/kg	2.1	U	UJ	2	U	U
2-Nitrophenol	mg/kg	.43	U	U	.41	U	U
3,3'-Dichlorobenzidine	mg/kg	2.1	U	U	2	U	UJ
3-Nitroaniline	mg/kg	2.1	U	U	2	U	UJ
4,6-Dinitro-2-methylphenol	mg/kg	2.1	U	UJ	2	U	U
4-Bromophenyl phenyl ether	mg/kg	.43	U	U	.41	U	U
4-Chloro-3-methylphenol	mg/kg	.43	U	U	.41	U	U
4-Chloroaniline	mg/kg	.43	U	U	.41	U	UJ
4-Chlorophenyl phenyl ether	mg/kg	.43	U	U	.41	U	U
4-Methylphenol	mg/kg	.43	U	U	.41	U	U
4-Nitroaniline	mg/kg	2.1	U	U	2	U	UJ
4-Nitrophenol	mg/kg	2.1	U	UJ	2	U	U
Acenaphthene	mg/kg	.43	U	U	.41	U	U
Acenaphthylene	mg/kg	.43	U	U	.41	U	U
Anthracene	mg/kg	.43	U	U	.41	U	U
Benzo(a)anthracene	mg/kg	.43	U	U	.41	U	U
Benzo(a)pyrene	mg/kg	.43	U	U	.41	U	U
Benzo(b)fluoranthene	mg/kg	.43	U	U	.41	U	U
Benzo(ghi)perylene	mg/kg	.43	U	U	.41	U	U
Benzo(k)fluoranthene	mg/kg	.43	U	U	.41	U	U

Summary of Validated Sediment Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-SW/SD01			PPMP-174-SW/SD02		
	Associated Site:	PPMP-174			PPMP-174		
	Sample No:	KU1001			KU1002		
	Sample Date:	27-JAN-99			08-FEB-99		
User Test Group / Lab Method	Sample Depth:	0 - .5			0 - .5		
Parameter	Units	Result	Qual	VQual	Result	Qual	VQual
SEMIVOLATILES							
SW8270_S							
Butyl benzyl phthalate	mg/kg	.43	U	U	.41	U	U
Carbazole	mg/kg	.43	U	U	.41	U	UJ
Chrysene	mg/kg	.43	U	U	.41	U	U
Di-n-butyl phthalate	mg/kg	.43	U	U	.41	U	U
Di-n-octyl phthalate	mg/kg	.43	U	U	.41	U	U
Dibenz(a,h)anthracene	mg/kg	.43	U	U	.41	U	U
Dibenzofuran	mg/kg	.43	U	U	.41	U	U
Diethyl phthalate	mg/kg	.43	U	U	.41	U	U
Dimethyl phthalate	mg/kg	.43	U	U	.41	U	U
Fluoranthene	mg/kg	.43	U	U	.41	U	U
Fluorene	mg/kg	.43	U	U	.41	U	U
Hexachlorobenzene	mg/kg	.43	U	U	.41	U	U
Hexachlorobutadiene	mg/kg	.43	U	U	.41	U	U
Hexachlorocyclopentadiene	mg/kg	2.1	U	UJ	2	U	U
Hexachloroethane	mg/kg	.43	U	U	.41	U	U
Indeno(1,2,3-cd)pyrene	mg/kg	.43	U	U	.41	U	U
Isophorone	mg/kg	.43	U	U	.41	U	U
Naphthalene	mg/kg	.43	U	U	.41	U	U
Nitrobenzene	mg/kg	.43	U	U	.41	U	U
Pentachlorophenol	mg/kg	2.1	U	U	2	U	U
Phenanthrene	mg/kg	.43	U	U	.41	U	U
Phenol	mg/kg	.43	U	U	.41	U	U
Pyrene	mg/kg	.43	U	U	.41	U	U
bis(2-Chloroethoxy)methane	mg/kg	.43	U	U	.41	U	U
bis(2-Chloroethyl)ether	mg/kg	.43	U	U	.41	U	U
bis(2-Chloroisopropyl)ether	mg/kg	.43	U	U	.41	U	U
bis(2-Ethylhexyl)phthalate	mg/kg	.43	U	U	.41	U	U
n-Nitroso-di-n-propylamine	mg/kg	.43	U	U	.41	U	U
n-Nitrosodiphenylamine	mg/kg	.43	U	U	.41	U	U

Summary of Validated Sediment Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-SW/SD01			PPMP-174-SW/SD02		
	Associated Site:	PPMP-174			PPMP-174		
	Sample No:	KU1001			KU1002		
	Sample Date:	27-JAN-99			08-FEB-99		
User Test Group	*Sample Depth:*	0 - .5			0 - .5		
Lab Method / *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
TOC							
SW9060_S							
Total Organic Carbon	mg/kg	6890			9390		
VOLATILES							
SW8260_S							
1,1,1,2-Tetrachloroethane	mg/kg	.0064	U	U	.0062	U	U
1,1,1-Trichloroethane	mg/kg	.0064	U	U	.0062	U	U
1,1,2,2-Tetrachloroethane	mg/kg	.0064	U	UJ	.0062	U	UJ
1,1,2-Trichloroethane	mg/kg	.0064	U	U	.0062	U	U
1,1-Dichloroethane	mg/kg	.0064	U	U	.0062	U	U
1,1-Dichloroethene	mg/kg	.0064	U	U	.0062	U	U
1,1-Dichloropropene	mg/kg	.0064	U	U	.0062	U	U
1,2,3-Trichlorobenzene	mg/kg	.0064	U	UJ	.0062	U	UJ
1,2,3-Trichloropropane	mg/kg	.0064	U	UJ	.0062	U	UJ
1,2,4-Trichlorobenzene	mg/kg	.0064	U	UJ	.0062	U	UJ
1,2,4-Trimethylbenzene	mg/kg	.0064	U	UJ	.0062	U	UJ
1,2-Dibromo-3-Chloropropane	mg/kg	.013	U	R	.012	U	R
1,2-Dibromoethane	mg/kg	.0064	U	U	.0062	U	U
1,2-Dichlorobenzene	mg/kg	.0064	U	UJ	.0062	U	UJ
1,2-Dichloroethane	mg/kg	.0064	U	U	.0062	U	U
1,2-Dichloropropane	mg/kg	.0064	U	U	.0062	U	U
1,2-Dimethylbenzene	mg/kg	.0064	U	U	.0062	U	U
1,3,5-Trimethylbenzene	mg/kg	.0064	U	UJ	.0062	U	UJ
1,3-Dichlorobenzene	mg/kg	.0064	U	UJ	.0062	U	UJ
1,3-Dichloropropane	mg/kg	.0064	U	U	.0062	U	U
1,4-Dichlorobenzene	mg/kg	.0064	U	UJ	.0062	U	UJ
2-Butanone	mg/kg	.026	U	R	.025	U	R
2-Hexanone	mg/kg	.026	U	UJ	.025	U	R
4-Methyl-2-pentanone	mg/kg	.026	U	U	.025	U	UJ
Acetone	mg/kg	.026	U	R	.025	U	R
Benzene	mg/kg	.0064	U	U	.0062	U	U
Bromobenzene	mg/kg	.0064	U	UJ	.0062	U	UJ

Summary of Validated Sediment Data

Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)

Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-SW/SD01			PPMP-174-SW/SD02		
	Associated Site:	PPMP-174			PPMP-174		
	Sample No:	KU1001			KU1002		
	Sample Date:	27-JAN-99			08-FEB-99		
User Test Group	*Sample Depth:*	0 - .5			0 - .5		
Lab Method / *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES							
SW8260_S							
Bromochloromethane	mg/kg	.0064	U	R	.0062	U	R
Bromodichloromethane	mg/kg	.0064	U	U	.0062	U	U
Bromoform	mg/kg	.0064	U	U	.0062	U	U
Bromomethane	mg/kg	.013	U	U	.012	U	UJ
Carbon disulfide	mg/kg	.0064	U	U	.0062	U	U
Carbon tetrachloride	mg/kg	.0064	U	U	.0062	U	U
Chlorobenzene	mg/kg	.0064	U	U	.0062	U	U
Chloroethane	mg/kg	.013	U	U	.012	U	U
Chloroform	mg/kg	.0064	U	U	.0062	U	U
Chloromethane	mg/kg	.013	U	U	.012	U	U
Cumene	mg/kg	.0064	U	U	.0062	U	U
Dibromochloromethane	mg/kg	.0064	U	U	.0062	U	U
Dibromomethane	mg/kg	.0064	U	R	.0062	U	R
Dichlorodifluoromethane	mg/kg	.013	U	U	.012	U	U
Ethylbenzene	mg/kg	.0064	U	U	.0062	U	U
Hexachlorobutadiene	mg/kg	.0064	U	UJ	.0062	U	UJ
Methylene chloride	mg/kg	.0031	J B	B	.0065	B	B
Naphthalene	mg/kg	.0064	U	UJ	.0062	U	UJ
Styrene	mg/kg	.0064	U	U	.0062	U	U
Tetrachloroethene	mg/kg	.0064	U	U	.0062	U	U
Toluene	mg/kg	.0064	U	U	.0062	U	U
Trichloroethene	mg/kg	.0064	U	U	.0062	U	U
Trichlorofluoromethane	mg/kg	.013	U	U	.012	U	U
Vinyl chloride	mg/kg	.013	U	U	.012	U	U
cis-1,2-Dichloroethene	mg/kg	.0064	U	U	.0062	U	U
cis-1,3-Dichloropropene	mg/kg	.0064	U	U	.0062	U	U
m,p-Xylenes	mg/kg	.0064	U	U	.0062	U	U
n-Butylbenzene	mg/kg	.0064	U	UJ	.0062	U	UJ
n-Propylbenzene	mg/kg	.0064	U	UJ	.0062	U	UJ
o-Chlorotoluene	mg/kg	.0064	U	UJ	.0062	U	UJ
p-Chlorotoluene	mg/kg	.0064	U	UJ	.0062	U	UJ

Summary of Validated Sediment Data
Small Weapons Storage and Cleaning Compound, Bldg 1378 (Parcel 174)
Fort McClellan, Alabama

Report Date: 07/05/00

	Location Code:	PPMP-174-SW/SD01			PPMP-174-SW/SD02		
	Associated Site:	PPMP-174			PPMP-174		
	Sample No:	KU1001			KU1002		
	Sample Date:	27-JAN-99			08-FEB-99		
User Test Group	*Sample Depth:*	0 - .5			0 - .5		
Lab Method / *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
VOLATILES							
SW8260_S							
p-Cymene	mg/kg	.0064	U	UJ	.0062	U	UJ
sec-Butylbenzene	mg/kg	.0064	U	UJ	.0062	U	UJ
sec-Dichloropropane	mg/kg	.0064	U	U	.0062	U	U
tert-Butylbenzene	mg/kg	.0064	U	UJ	.0062	U	UJ
trans-1,2-Dichloroethene	mg/kg	.0064	U	U	.0062	U	U
trans-1,3-Dichloropropene	mg/kg	.0064	U	U	.0062	U	U

GRAIN SIZE ANALYSIS

Duane Nielsen
IT Corporation
March 24, 1999
IT Project ID: Fort McClellan
IT Project No.: 774645.17020300

IT GEOTECHNICAL LABORATORY
OAK RIDGE, TN
(423) 482-6497

PARTICLE-SIZE ANALYSIS
ASTM D 422

PPMP-174 SW/SD01

Project Name	Fort McClellan	Client Sample No.	KW1001
Project No.	774645.17020300	IT Lab Sample No.	ETDC-8188

Specific Gravity = 2.65
assumed for calculations

Moisture Content = 31.7%
based on dry sample weight

SIEVE ANALYSIS

COARSE	Sieve No.	Diameter mm	Percent Finer
	3"	75.000	100.0%
	1.5"	37.500	100.0%
	0.75"	19.000	100.0%
	0.375"	9.500	100.0%
	#4	4.750	86.7%
	#10	2.000	63.7%

FINE	Sieve No.	Diameter mm	Percent Finer
	#20	0.850	41.5%
	#40	0.425	23.4%
	#60	0.250	14.7%
	#100	0.149	10.6%
	#140	0.106	9.4%
	#200	0.075	8.7%

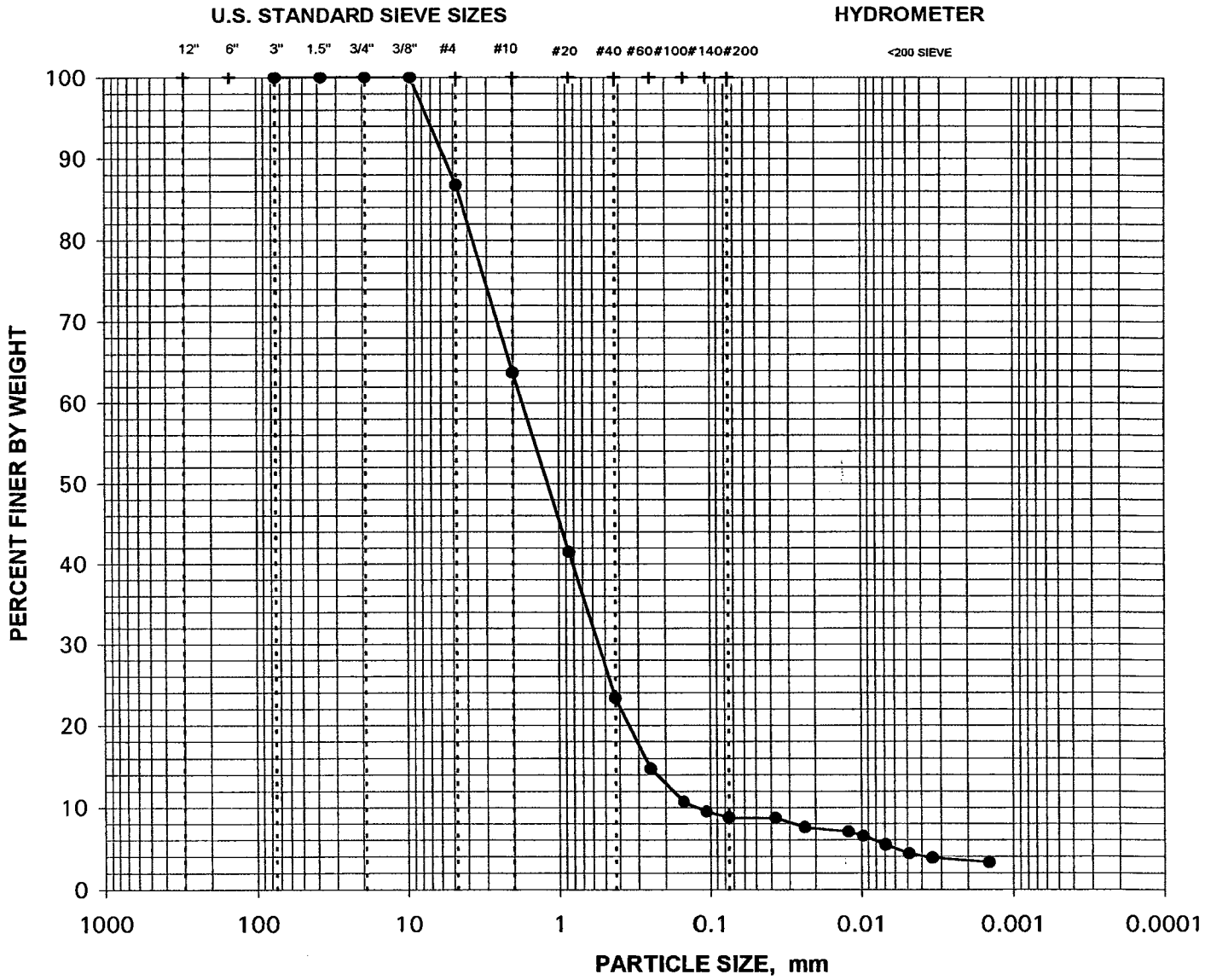
HYDROMETER ANALYSIS

HYDROMETER	Diameter mm	Percent Finer
	0.03701	8.6%
	0.02358	7.5%
	0.01205	7.0%
	0.00966	6.5%
	0.00688	5.4%
	0.00484	4.3%
	0.00341	3.8%
	0.00144	3.2%

Duane Nielsen
IT Corporation
March 24, 1999
IT Project ID: Fort McClellan
IT Project No.: 774645.17020300

IT GEOTECHNICAL LABORATORY
OAK RIDGE, TN
(423) 482-6497

Fort McClellan



CLIENT SAMPLE NO.: KV1001

IT LAB SAMPLE NO.: ETDC-8188

BOULDERS	COBBLES	GRAVEL		SAND			
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT 2 - 75 microns CLAY <2 microns

Duane Nielsen
IT Corporation
March 24, 1999
IT Project ID: Fort McClellan
IT Project No.: 774645.17020300

IT GEOTECHNICAL LABORATORY
OAK RIDGE, TN
(423) 482-6497

PARTICLE-SIZE ANALYSIS
ASTM D 422

PPMP-174 SW/SDC2

Project Name	Fort McClellan	Client Sample No.	KU1002
Project No.	774645.17020300	IT Lab Sample No.	ETDC-8212

Specific Gravity = 2.65
assumed for calculations

Moisture Content = 26.6%
based on dry sample weight

SIEVE ANALYSIS

	Sieve No.	Diameter mm	Percent Finer
COARSE	3"	75.000	100.0%
	1.5"	37.500	100.0%
	0.75"	19.000	100.0%
	0.375"	9.500	98.0%
	#4	4.750	92.6%
	#10	2.000	84.8%

	Sieve No.	Diameter mm	Percent Finer
FINE	#20	0.850	76.6%
	#40	0.425	59.6%
	#60	0.250	39.9%
	#100	0.149	22.1%
	#140	0.106	16.5%
	#200	0.075	13.3%

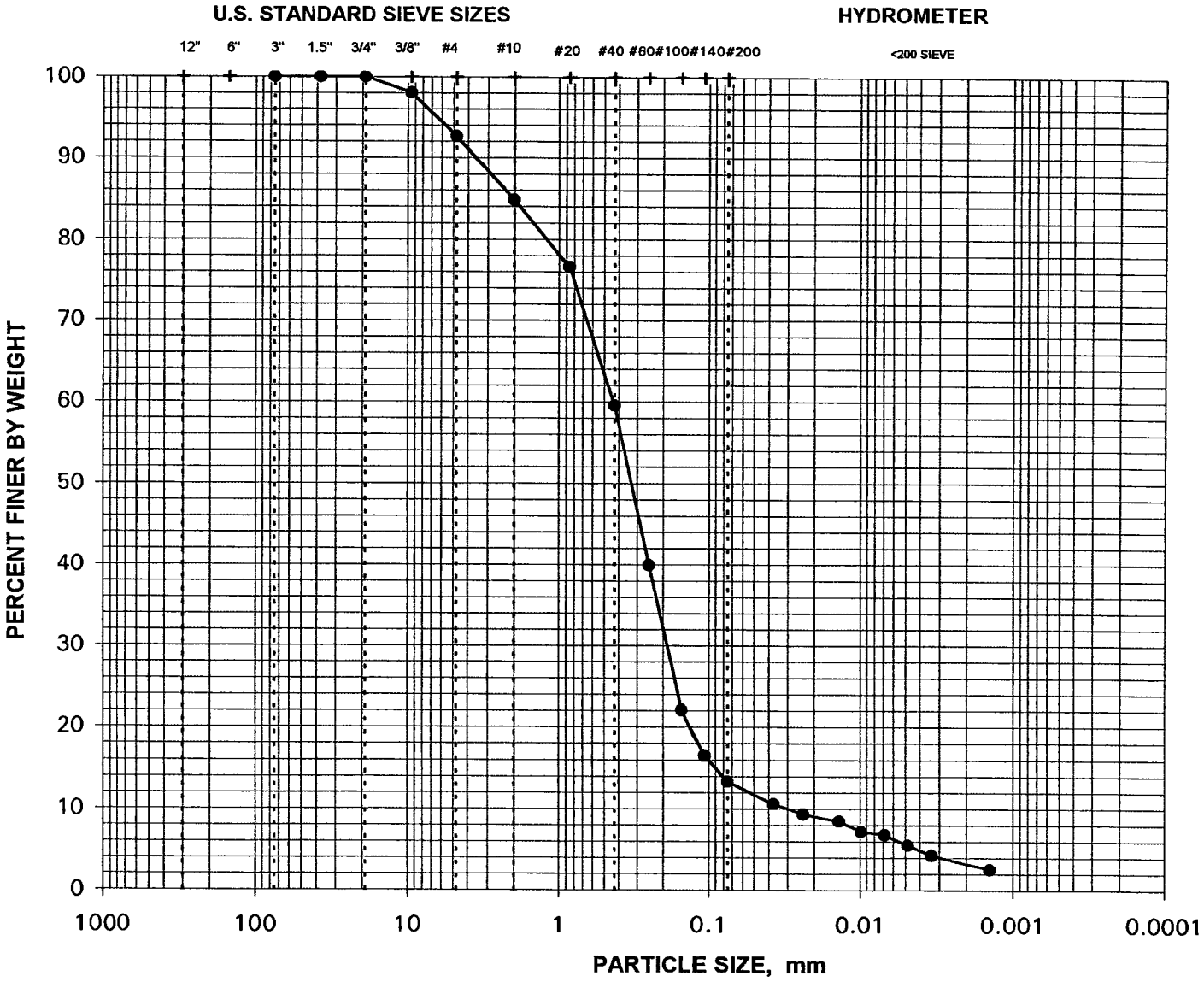
HYDROMETER ANALYSIS

	Diameter mm	Percent Finer
HYDROMETER		
	0.03694	10.6%
	0.02358	9.3%
	0.01371	8.5%
	0.00977	7.2%
	0.00684	6.8%
	0.00480	5.5%
	0.00333	4.2%
	0.00142	2.5%

Duane Nielsen
IT Corporation
March 24, 1999
IT Project ID: Fort McClellan
IT Project No.: 774645.17020300

IT GEOTECHNICAL LABORATORY
OAK RIDGE, TN
(423) 482-6497

Fort McClellan



CLIENT SAMPLE NO.: KU1002

IT LAB SAMPLE NO.: ETDC-8212

BOULDERS	COBBLES	GRAVEL		SAND			
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT 2 - 75 microns CLAY <2 microns

APPENDIX F

DATA VALIDATION SUMMARY REPORT

Data Validation Summary Report
for the Site Investigation Performed at the
Small Weapons Cleaning and Storage Building 1378
(Parcel PPMP-174)
Fort McClellan, Calhoun County, Alabama

1.0 Introduction

Level III data validation was performed on 100 percent of the environmental samples collected at Parcel PPMP-174. The analytical data consisted of eight sample delivery groups (SDG), PK917401, PK917402, PK917403, PK917404, PK917405, PK917406, PK917407, and PK917408, which was analyzed by Quanterra Incorporated. In addition, an evaluation of the field split (FS) data, which was analyzed by the U.S. Army Corps of Engineers-South Atlantic Division laboratory, is included in this report. The chemical parameters for which the samples were analyzed, are identified below:

Parameter (Method)
Target Compound List (TCL) Volatile Organics by Gas Chromatography (GC)/Mass Spectrometry SW-846 8260B
TCL Semivolatiles by GC SW-846 8270C
Metals by SW-846 6010B and 7471A/7470A
Wet Chemistry - Total Organic Carbon by SW-846-9060

2.0 Procedures

The sample data were validated following the logic identified in the 1994 EPA *Contract Laboratory Program National Functional Guidelines For Inorganic Data Review* and the 1994 EPA *Contract Laboratory Program National Functional Guidelines For Organic Review* 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 SW-846 test methods for the analytical data and the application of the Contract Laboratory Program (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 chromatography (GC) and GC/Mass Spectrometry 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 SW-846 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. SW-846, Code of Federal Regulations, SOPs) 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. The R qualifier was assigned to the samples with more than one set of results to indicate that a given result should not be used to characterize a particular constituent or an analysis for a given sample.

Individual validation reports have been prepared for each parameter 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-174. 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/Mass Spectrometry SW-846-8260B

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 relative response factors (RRF) 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
PK917401	KU0005, KU0006, KU0008, KU0009, KU0010	Acetone, 2-Butanone, 1,2-Dibromo-3-Chloropropane	R/B/J
PK917402	KU2001, KU2002	Acetone, 2-Butanone, 1,2-Dibromo-3-Chloropropane	R/J
PK917403	KU1001	Acetone, 2-Butanone, Bromochloromethane, Dibromomethane, 1,2-Dichloro-3-Chloropropane	R
PK917404	KU0001, KU0002, KU0003, KU0004	Acetone, Bromomethane, 2-Butanone	R/B/J
PK917405	KU1002	Acetone, 2-Butanone, Bromochloromethane, 2-Hexanone, Dibromomethane, 1,2-Dibromo-3-Chloropropane	R
PK917406	KU2004	Acetone, 2-Butanone, Bromochloromethane, Dibromomethane, 1,2-Dibromo-3-Chloropropane	B/R
PK917407	KU3001, KU3002, KU3004	Acetone, 2-Butanone, Bromochloromethane, Dibromomethane, 1,2-Dibromo-3-Chlopropane	R/B
PK917408	KU0011	Acetone, 2-Butanone, Bromochloromethane	R/B

- 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
PK917401	KU0005, KU0006, KU0008, KU0009, KU0010	Bromomethane, Naphthalene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene	B/UJ
PK917401	KU0005, KU0006, KU0008, KU0009	Acetone	B/J
PK917402	KU2001, KU2002	Acetone, Methylene Chloride	B/J
PK917403	KU1001	2-Hexanone, Naphthalene	UJ
PK917404	KU0001, KU0002, KU0003, KU0004	Bromomethane, Carbon disulfide, Chloroethane, Trichlorofluoromethane, Methylene Chloride, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene	B/R/UJ
PK917404	KU0004	Acetone	B
PK917405	KU1002	Bromomethane, Methylene Chloride, 2-Butanone, 2-Hexanone, Naphthalene, 4-Methyl-2-pentanone, 1,2-Dibromo-3-chloropropane	R/B/UJ
PK917406	KU2004	Acetone, 2-Butanone, n-Butylbenzene, sec-Butylbenzene, 1,2-Dibromo-3-Chloropropane, 1,2-Dichlorobenzene, 1,4-Dichlorobenzene, Dichlorodifluoromethane, Hexachlorobutadiene, 2-Hexanone, p-Isopropyltoluene, Methylene chloride, 4-Methyl-2-pentanone, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Naphthalene	R/B/UJ
PK917408	KU0011	Methylene chloride	B

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
PK917401	KU0005, KU0006, KU0008, KU0009, KU0010	Bromomethane, Methylene Chloride	Method
PK917401	KU0005, KU0006, KU0009, KU0010	Acetone	Method/ER
PK917402	KU2001, KU2002	Methylene Chloride	Method/ER
PK917403	KU1001	Methylene Chloride	Method
PK917404	KU0001, KU0002, KU0003, KU0004	Methylene Chloride	Method
PK917404	KU0004	Acetone	Method
PK917405	KU1002	Methylene chloride	Method
PK917406	KU2004	Acetone	Method
PK917407	KU3002, KU3004	Acetone	Method
PK917407	KU3004	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Naphthalene	Method
PK917408	KU0011	Acetone, Methylene Chloride	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 are within acceptable QC ranges for the surrogates applied with the exception of the following: Positive results for the samples identified below were estimated (qualified 'J') due to high recoveries; unless 'B' qualified due to blank contamination.

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK917404	KU0003	Acetone, 2-Butanone, Methylene Chloride, 1,2,4-Trimethylbenzene	*B/J

* '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

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 (FD) results were evaluated and all QC criteria were met.

Internal Standards

All internal standards met QC 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
PK917401	KU0005, KU0006, KU0008, KU0009, KU0010	1,4-Dichlorobenzene-d4	UJ
PK917403	KU1001	1,4-Dichlorobenzene-d4	UJ
PK917404	KU0003	1,4-Dichlorobenzene-d4	J/UJ
PK917405	KU1002	1,4-Dichlorobenzene-d4	**R/JU
PK917408	KU0011	1,4-Dichlorobenzene-d4	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.

Quantitation

Results quantitated 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 Target Compound List Semivolatiles by GC/Mass Spectrometry 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.

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
PK917401	KU0005, KU0006, KU0008, KU0009, KU0010	Hexachlorocyclopentadiene	UJ
PK917402	KU2001, KU2002	4-Nitrophenol	UJ
PK917402	KU2001	Hexachlorocyclopentadiene	UJ
PK917403	KU1001	Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 2-Nitroaniline, 4-Nitrophenol, 4,6-Dinitro-2-Methylphenol	UJ
PK917404	KU0001, KU0002, KU0003, KU0004	3-Nitroaniline,4-Nitroaniline, Carbazole	J/UJ
PK917405	KU1002	Carbazole, 4-Chloroaniline, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Nitroaniline	UJ

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

Blanks

The 5X/10X rule for contaminants found in the associated equipment rinsates 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
PK917401	KU0005, KU0006, KU0008, KU0009, KU0010	Bis (2-Ethylhexyl) phthalate, Di-n-butyl phthalate	Method
PK917404	KU0001, KU0004	Bis (2-Ethylhexyl) phthalate	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

Batch QC, MS/MSD, and LCS were performed for the project samples and all QC criteria were met.

Field Duplicates

Original and FD results were evaluated and the following exceeded the 50 percent RPD criteria applied:

SDG	Samples Affected	Analyte/Analytes	Validation Qualifier
PK917401	KU0005 (original), KU0006 (FD)	Benzo (b) fluoranthene	J

Note: High RPDs are most likely due to matrix interferences and sample non-homogeneity

Internal Standards

All internal standards met criteria with the exception of the following:

- The compounds associated with the internal standards, which did not meet QC

criteria, are identified below and are qualified as indicated.

SDG	Samples Affected	Internal Standard Outside QC Limits for Analytes	Validation Qualifier
PK917408	KU0011	Benzo(ghi)perylene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene	J

Quantitation

Results quantitated between the method detection limit (MDL) and the reporting limit (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:

SDG	Samples Affected	Analyte	Associated Blank Contamination
PK917403	KU1001	Sodium	Method
PK917404	KU0001, KU0002, KU0003, KU0004	Sodium	ER
PK917404	KU0004	Thallium	Method
PK917405	KU1002	Sodium, Mercury	Method
PK917406	KU2004	Aluminum, Iron, Potassium, Mercury	Method/CCB

SDG	Samples Affected	Analyte	Associated Blank Contamination
PK917407	KU3001, KU3002, KU3004	Potassium	CCB
PK917408	KU0011	Sodium, Mercury	Method/ER

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
PK917404	KU0001, KU0002, KU0003, KU0004	Lead, Antimony, Chromium, Magnesium, Manganese, Zinc	J/UJ

Laboratory Control Sample

All QC criteria were met for the LCS associated with the project sample analyses.

Interference Check Sample

All interference check sample (ICS) percent recoveries, where applicable, were acceptable with the exceptions noted below:

SDG	Samples Affected	Analyte	Validation Qualifier
PK917402	KU2001, KU2002	Potassium	J
PK917407	KU3001, KU3002, KU3004	Potassium	J

Inductively Coupled Plasma Serial Dilutions

All QC criteria, where applicable were met.

Field Duplicates

Original and FD results were evaluated and the following exceeded the 35 percent (water) and 50 percent (soil) QC criteria applied:

SDG	Samples Affected	Analyte	Validation Qualifier
PK917401	KU0005 (original), KU0006 (FD)	Arsenic, Nickel, Zinc	J
PK917402	KU2001(original), KU2002 (FD)	Zinc	J

Sample Quantitation

Results quantitated between the instrument detection limit (IDL) and the RL ("B" flagged by the laboratory) were qualified as estimated (J).

4.4 Wet Chemistry - Total Organic Carbon by SW-846-9060

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.

Blanks

The 5X rule for contaminants found in the associated equipment rinses and method blanks was applied to all sample results. All were found to be acceptable.

Matrix Spike/Matrix Spike Duplicate

MS/MSD and LCS was performed for the project samples and all QC criteria were met.

Field Duplicates

Original and FD results were evaluated and no problems were noted.

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.

5.0 Quality Assurance Field Split Sample Data Evaluation

Data from the quality assurance split samples supplied to IT by the U.S. Army Corps of Engineers were reviewed for comparability to the original and FD results. Relative percent differences were calculated and the results are summarized in this section.

- Field split data for SDG **PK917401**

Original Sample ID KU0005	Field Dup ID KU0006	Field Split ID KU0007	Units	Compounds / Elements	Origina l / Field Split RPD	% RSD
.056	.041	nd	ug/kg	Mercury		
10400	10600	13400	ug/kg	Aluminum	-25.2%	14.6%
15.8	34.8	6.87	ug/kg	Arsenic	78.8%	74.5%
17.2	20.7	14.1	ug/kg	Lead	19.8%	19.1%
64.8	70.9	78.4	ug/kg	Barium	-19.0%	9.5%
2.2	2.4	nd	ug/kg	Selenium		
.67	.86	nd	ug/kg	Beryllium		
nd	**.56**	nd	ug/kg	Thallium		
9580	8730	7210	ug/kg	Calcium	28.2%	14.1%
20	32.1	14.3	ug/kg	Chromium	33.2%	41.1%
24	32.1	13.7	ug/kg	Copper	54.6%	39.6%
42500	47600	26100	ug/kg	Iron	47.8%	29.0%
1790	1560	3050	ug/kg	Magnesium	-52.1%	37.6%
456	404	281	ug/kg	Manganese	47.5%	23.6%
8.9	16.5	10.7	ug/kg	Nickel	-18.4%	33.0%
418	**399**	618	ug/kg	Potassium	-38.6%	25.4%
2.7	3.5	nd	ug/kg	Silver		
65.5	**59.3**	426	ug/kg	Sodium	-146.7	114.4
11.8	13.3	23.3	ug/kg	Vanadium	-65.5%	38.8%
45.6	90.2	47.3	ug/kg	Zinc	-3.7%	41.4%
15	**17**	nd	ug/kg	Acetone		
1.9	**2.8**	nd	ug/kg	Bromomethane		
nd	nd	**3.5**	ug/kg	2-Butanone		
2.8	**2.6**	nd	ug/kg	Methylene chloride		
58	nd	nd	ug/kg	Acenaphthylene		
44	**39**	nd	ug/kg	Benz(a)anthracene		
97	**53**	nd	ug/kg	Benzo(b)fluoranthene		
78	**58**	nd	ug/kg	Benzo(k)fluoranthene		
98	**66**	nd	ug/kg	Benzo(ghi)perylene		
89	**65**	nd	ug/kg	Benzo(a)pyrene		
83	**79**	nd	ug/kg	bis(2-Ethylhexyl) phthalate		
67	**44**	nd	ug/kg	Chrysene		
55	**59**	nd	ug/kg	Di-n-butyl phthalate		
81	**58**	nd	ug/kg	Indenso(1,2,3-cd)pyrene		
51	nd	nd	ug/kg	Pyrene		

Bold Print = Results detected below the reporting limit.

Field dup was reanalyzed for surrogate.

- ***Metals.*** Majority of the same metals detected in all samples. Arsenic, magnesium, sodium and vanadium have RPD values above the QC limit. Differences attributed to lack of sample homogeneity in soils and/or field split lab not reporting results below the reporting limits.

- ***Volatiles.*** No volatiles reported for field split. Acetone and bromomethane detected in original and field dup below the reporting limit.

- ***Semivolatiles.*** No semivolatiles reported for field split. All compounds detected in the original and field dup were below the reporting limit.

- Field split data for SDG **PK917402**

Original Sample ID KU2001	Field Dup ID KU2002	Field Split ID KU2003	Units	Compounds / Elements	Original / Field Split RPD	% RSD
.046	nd	nd	ug/L	Mercury		
370	290	374	ug/L	Aluminum	-1.1%	13.7%
29.0	**28.6**	32	ug/L	Barium	-9.8%	6.2%
48000	48600	46600	ug/L	Calcium	3.0%	2.2%
410	306	385	ug/L	Iron	6.3%	14.8%
13000	13300	13800	ug/L	Magnesium	-6.0%	3.0%
41.3	37.4	34	ug/L	Manganese	19.4%	9.7%
1700	**1810**	1590	ug/L	Potassium	6.7%	6.5%
3260	**3310**	4730	ug/L	Sodium	-36.8%	22.2%
68.8	23.1	24	ug/L	Zinc	96.6%	67.6%
5.5	5.9	nd	ug/L	Acetone		
.8	**.82**	nd	ug/L	Methylene chloride		
nd	7.9	nd	ug/L	bis(2-Ethylhexyl)phthalate		

Bold Print = Results detected below the reporting limit.

- ***Metals.*** Majority of the same metals detected in all samples. Zinc and sodium has RPD above the QC limit.

- ***Volatiles.*** No volatiles reported in the field split. Acetone and methylene chloride, common lab contaminants, were detected in the original and field dup sample below the reporting limit.

- ***Semivolatiles.*** No semivolatiles reported in the original or field split. Bis(2-Ethylhexyl)phthalate a common lab contaminant was detected in the field dup below the reporting limit.

- Field split data for SDG **PK917407**

Original Sample ID KU3001	Field Dup ID KU3002	Field Split ID KU3003	Units	Compounds / Elements	Original / Field Split RPD	% RSD
78.1	**75.7**	71.0	ug/L	Aluminum	9.5%	4.8%
3.4	**3.4**	6.0	ug/L	Arsenic	-55.3%	35.2%
37.2	**36.5**	35.0	ug/L	Barium	6.1%	3.1%
nd	nd	5.0	ug/L	Selenium		
199000	201000	172000	ug/L	Calcium	14.6%	8.5%
nd	nd	7.0	ug/L	Chromium		
11200	12100	9890	ug/L	Iron	12.4%	10.0%
180000	181000	170000	ug/L	Magnesium	5.7%	3.4%
7040	7210	6060	ug/L	Manganese	15.0%	9.2%
952	**1050**	1000	ug/L	Potassium	-4.9%	4.9%
73800	74400	86800	ug/L	Sodium	-16.2%	9.4%
nd	**1.9**	nd	ug/L	Acetone		

Bold Print = Results detected below the reporting limit.

- ***Metals.*** Majority of the same metals detected in all three samples. Arsenic, the only element with its RPD above the QC limit was detected below the reporting/quantitation limit in the original and FD. Selenium and chromium was detected in the FS at or below the reporting/quantitation of the original.

- ***Volatiles.*** No volatiles detected in the original or FS. Acetone, a common laboratory contaminate was detected below the reporting limit in the FD

- ***Semivolatiles.*** No semivolatiles detected in the original, FD or FS.

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 Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0001	D2216	NONE	N 0 1	PERCENT MOISTURE				Y Y P						CQDMWS	00:0
	SW6010	SW3050	N 0 1	ALUMINUM	8150	mg/kg		Y Y P						CQDMWS	15:1
				ANTIMONY	6.8	mg/kg	U	N Y U	UJ	08A				CQDMWS	15:1
				ARSENIC	8.7	mg/kg		Y Y P						CQDMWS	15:1
				BARIUM	52.8	mg/kg		Y Y P						CQDMWS	15:1
				BERYLLIUM	0.70	mg/kg		Y Y P						CQDMWS	15:1
				CADMIUM	0.57	mg/kg	U	N Y U	U					CQDMWS	15:1
				CALCIUM	5460	mg/kg		Y Y P						CQDMWS	15:1
				CHROMIUM	15.0	mg/kg		Y Y P	J	08A	08B			CQDMWS	15:1
				COBALT	4.2	mg/kg	B	Y Y P	J	15				CQDMWS	15:1
				COPPER	23.0	mg/kg		Y Y P						CQDMWS	15:1
				IRON	26800	mg/kg		Y Y P						CQDMWS	15:1
				LEAD	27.0	mg/kg		Y Y P	J	08B				CQDMWS	15:1
				MAGNESIUM	2250	mg/kg		Y Y P	J	08A				CQDMWS	15:1
				MANGANESE	121	mg/kg		Y Y P	J	08A				CQDMWS	15:1
				NICKEL	9.8	mg/kg		Y Y P						CQDMWS	15:1
				POTASSIUM	423	mg/kg	B	Y Y P	J	15				CQDMWS	15:1
				SELENIUM	1.5	mg/kg		Y Y P						CQDMWS	15:1
				SILVER	1.1	mg/kg	U	N Y U	U					CQDMWS	15:1
				SODIUM	71.7	mg/kg	B	Y Y F	B	06C	15			CQDMWS	15:1
				THALLIUM	1.1	mg/kg	U	N Y U	U					CQDMWS	15:1
				VANADIUM	24.6	mg/kg		Y Y P						CQDMWS	15:1
				ZINC	52.7	mg/kg		Y Y P	J	08A				CQDMWS	15:1
	SW7471	TOTAL	N 0 1	MERCURY	0.043	mg/kg		Y Y P						CQDMWS	16:1
	SW8260	SW5030	N 0 1	1,1,1,2-TETRACHLOROETHANE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,1,1-TRICHLOROETHANE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,1,2,2-TETRACHLOROETHANE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,1,2-TRICHLOROETHANE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,1-DICHLOROETHANE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,1-DICHLOROETHENE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,1-DICHLOROPROPENE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,2,3-TRICHLOROBENZENE	.0057	mg/kg	U	N Y U	UJ	04B				CQDMWS	12:3
				1,2,3-TRICHLOROPROPANE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,2,4-TRICHLOROBENZENE	.0057	mg/kg	U	N Y U	UJ	04B				CQDMWS	12:3
				1,2,4-TRIMETHYLBENZENE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,2-DIBROMO-3-CHLOROPROPANE	.011	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,2-DIBROMOETHANE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,2-DICHLOROBENZENE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,2-DICHLOROETHANE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,2-DICHLOROPROPANE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,3,5-TRIMETHYLBENZENE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,3-DICHLOROBENZENE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3
				1,3-DICHLOROPROPANE	.0057	mg/kg	U	N Y U	U					CQDMWS	12:3

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0001	SW8260	SW5030	N 0 1	1,4-DICHLOROBENZENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				2,2-DICHLOROPROPANE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				2-BUTANONE	.0065	mg/kg	J	Y	Y	P	J	04A	05A			CQDMWS	12:3
				2-CHLOROTOLUENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				2-HEXANONE	.023	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				4-CHLOROTOLUENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				4-METHYL-2-PENTANONE	.023	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				ACETONE	.039	mg/kg		Y	Y	P	J	04A	05A			CQDMWS	12:3
				BENZENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				BROMOBENZENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				BROMOCHLOROMETHANE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				BROMODICHLOROMETHANE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				BROMOFORM	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				BROMOMETHANE	.011	mg/kg	U	N	Y	U	R	04A	04B	05B		CQDMWS	12:3
				CARBON DISULFIDE	.0057	mg/kg	U	N	Y	U	UJ	05B				CQDMWS	12:3
				CARBON TETRACHLORIDE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				CHLOROBENZENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				CHLORODIBROMOMETHANE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				CHLOROETHANE	.011	mg/kg	U	N	Y	U	UJ	04B	05B			CQDMWS	12:3
				CHLOROFORM	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				CHLOROMETHANE	.011	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				CIS-1,2-DICHLOROETHENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				CIS-1,3-DICHLOROPROPENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				DIBROMOMETHANE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				DICHLORODIFLUOROMETHANE	.011	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				ETHYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				HEXACHLOROBUTADIENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				ISOPROPYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				M-XYLENE & P-XYLENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				METHYLENE CHLORIDE	.0027	mg/kg	J B	Y	Y	F	B	04B	06A	15		CQDMWS	12:3
				N-BUTYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				N-PROPYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				NAPHTHALENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				O-XYLENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				P-ISOPROPYLTOLUENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				SEC-BUTYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				STYRENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				TERT-BUTYLBENZENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				TETRACHLOROETHENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				TOLUENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				TRANS-1,2-DICHLOROETHENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				TRANS-1,3-DICHLOROPROPENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				TRICHLOROETHENE	.0057	mg/kg	U	N	Y	U	U					CQDMWS	12:3
				TRICHLOROFLUOROMETHANE	.011	mg/kg	U	N	Y	U	UJ	05B				CQDMWS	12:3

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

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Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0001	SW8260	SW5030	N 0 1	VINYL CHLORIDE	.011	mg/kg	U	N Y U	U					CQDMWS	12:3
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				1,2-DICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				1,3-DICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				1,4-DICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				2,2'-OXYBIS(1-CHLOROPROPANE)	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				2,4,5-TRICHLOROPHENOL	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				2,4,6-TRICHLOROPHENOL	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				2,4-DICHLOROPHENOL	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				2,4-DIMETHYLPHENOL	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				2,4-DINITROPHENOL	1.8	mg/kg	U	N Y U	U					CQDMWS	21:1
				2,4-DINITROTOLUENE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				2,6-DINITROTOLUENE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				2-CHLORONAPHTHALENE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				2-CHLOROPHENOL	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				2-METHYLNAPHTHALENE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				2-METHYLPHENOL	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				2-NITROANILINE	1.8	mg/kg	U	N Y U	U					CQDMWS	21:1
				2-NITROPHENOL	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				3,3'-DICHLOROBENZIDINE	1.8	mg/kg	U	N Y U	U					CQDMWS	21:1
				3-NITROANILINE	1.8	mg/kg	U	N Y U	UJ	05B				CQDMWS	21:1
				4,6-DINITRO-2-METHYLPHENOL	1.8	mg/kg	U	N Y U	U					CQDMWS	21:1
				4-BROMOPHENYL PHENYL ETHER	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				4-CHLORO-3-METHYLPHENOL	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				4-CHLOROANILINE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				4-CHLOROPHENYL PHENYL ETHER	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				4-METHYLPHENOL	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				4-NITROANILINE	1.8	mg/kg	U	N Y U	UJ	04B	05B			CQDMWS	21:1
				4-NITROPHENOL	1.8	mg/kg	U	N Y U	U					CQDMWS	21:1
				ACENAPHTHENE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				ACENAPHTHYLENE	.097	mg/kg	J	Y Y P	J	15				CQDMWS	21:1
				ANTHRACENE	.053	mg/kg	J	Y Y P	J	15				CQDMWS	21:1
				BENZ(A)ANTHRACENE	.082	mg/kg	J	Y Y P	J	15				CQDMWS	21:1
				BENZO(A)PYRENE	.16	mg/kg	J	Y Y P	J	15				CQDMWS	21:1
				BENZO(B)FLUORANTHENE	.17	mg/kg	J	Y Y P	J	15				CQDMWS	21:1
				BENZO(GHI)PERYLENE	.091	mg/kg	J	Y Y P	J	15				CQDMWS	21:1
				BENZO(K)FLUORANTHENE	.18	mg/kg	J	Y Y P	J	15				CQDMWS	21:1
				BIS(2-CHLOROETHOXY)METHANE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				BIS(2-CHLOROETHYL) ETHER	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				BIS(2-ETHYLHEXYL) PHTHALATE	.065	mg/kg	J B	Y Y F	B	06A	15			CQDMWS	21:1
				BUTYL BENZYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				CARBAZOLE	.38	mg/kg	U	N Y U	UJ	04B	05B			CQDMWS	21:1
				CHRYSENE	.11	mg/kg	J	Y Y P	J	15				CQDMWS	21:1

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0001	SW8270	SW3550	N 0 1	DI-N-BUTYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				DI-N-OCTYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				DIBENZ(A,H)ANTHRACENE	.045	mg/kg	J	Y Y P	J	15				CQDMWS	21:1
				DIBENZOFURAN	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				DIETHYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				DIMETHYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				FLUORANTHENE	.097	mg/kg	J	Y Y P	J	15				CQDMWS	21:1
				FLUORENE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				HEXACHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				HEXACHLOROBUTADIENE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				HEXACHLOROCYCLOPENTADIENE	1.8	mg/kg	U	N Y U	U					CQDMWS	21:1
				HEXACHLOROETHANE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				INDENO(1,2,3-CD)PYRENE	.092	mg/kg	J	Y Y P	J	15				CQDMWS	21:1
				ISOPHORONE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				N-NITROSODI-N-PROPYLAMINE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				N-NITROSODIPHENYLAMINE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				NAPHTHALENE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				NITROBENZENE	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				PENTACHLOROPHENOL	1.8	mg/kg	U	N Y U	U					CQDMWS	21:1
				PHENANTHRENE	.031	mg/kg	J	Y Y P	J	15				CQDMWS	21:1
				PHENOL	.38	mg/kg	U	N Y U	U					CQDMWS	21:1
				PYRENE	.092	mg/kg	J	Y Y P	J	15				CQDMWS	21:1
KU0002	D2216	NONE	N 0 1	PERCENT MOISTURE				Y Y P						CQDN6S	00:0
	SW6010	SW3050	N 0 1	ALUMINUM	15100	mg/kg		Y Y P						CQDN6S	15:1
				ANTIMONY	6.8	mg/kg	U	N Y U	UJ	08A				CQDN6S	15:1
				ARSENIC	4.5	mg/kg		Y Y P						CQDN6S	15:1
				BARIUM	81.5	mg/kg		Y Y P						CQDN6S	15:1
				BERYLLIUM	1.1	mg/kg		Y Y P						CQDN6S	15:1
				CADMIUM	0.57	mg/kg	U	N Y U	U					CQDN6S	15:1
				CALCIUM	1380	mg/kg		Y Y P						CQDN6S	15:1
				CHROMIUM	15.5	mg/kg		Y Y P	J	08A	08B			CQDN6S	15:1
				COBALT	15.7	mg/kg		Y Y P						CQDN6S	15:1
				COPPER	65.9	mg/kg		Y Y P						CQDN6S	15:1
				IRON	39800	mg/kg		Y Y P						CQDN6S	15:1
				LEAD	19.8	mg/kg		Y Y P	J	08B				CQDN6S	15:1
				MAGNESIUM	7050	mg/kg		Y Y P	J	08A				CQDN6S	15:1
				MANGANESE	258	mg/kg		Y Y P	J	08A				CQDN6S	15:1
				NICKEL	38.4	mg/kg		Y Y P						CQDN6S	15:1
				POTASSIUM	554	mg/kg	B	Y Y P	J	15				CQDN6S	15:1
				SELENIUM	2.4	mg/kg		Y Y P						CQDN6S	15:1
				SILVER	1.1	mg/kg	U	N Y U	U					CQDN6S	15:1
				SODIUM	109	mg/kg	B	Y Y F	B	06C	15			CQDN6S	15:1
				THALLIUM	1.1	mg/kg	U	N Y U	U					CQDN6S	15:1

Validation Qualifier Data Entry Verification

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Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0002	SW6010	SW3050	N 0 1	VANADIUM	25.7	mg/kg		Y Y P						CQDN6S	15:1
				ZINC	133	mg/kg		Y Y P	J	08A				CQDN6S	15:1
	SW7471	TOTAL	N 0 1	MERCURY	0.034	mg/kg	B	Y Y P	J	15				CQDN6S	16:1
	SW8260	SW5030	N 0 1	1,1,1,2-TETRACHLOROETHANE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,1,1-TRICHLOROETHANE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,1,2,2-TETRACHLOROETHANE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,1,2-TRICHLOROETHANE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,1-DICHLOROETHANE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,1-DICHLOROETHENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,1-DICHLOROPROPENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,2,3-TRICHLOROBENZENE	.0057	mg/kg	U	N Y U	UJ	04B				CQDN6S	17:1
				1,2,3-TRICHLOROPROPANE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,2,4-TRICHLOROBENZENE	.0057	mg/kg	U	N Y U	UJ	04B				CQDN6S	17:1
				1,2,4-TRIMETHYLBENZENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,2-DIBROMO-3-CHLOROPROPANE	.011	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,2-DIBROMOETHANE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,2-DICHLOROBENZENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,2-DICHLOROETHANE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,2-DICHLOROPROPANE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,3,5-TRIMETHYLBENZENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,3-DICHLOROBENZENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,3-DICHLOROPROPANE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				1,4-DICHLOROBENZENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				2,2-DICHLOROPROPANE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				2-BUTANONE	.023	mg/kg	U	N Y U	R	04A	05A			CQDN6S	17:1
				2-CHLOROTOLUENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				2-HEXANONE	.023	mg/kg	U	N Y U	U					CQDN6S	17:1
				4-CHLOROTOLUENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				4-METHYL-2-PENTANONE	.023	mg/kg	U	N Y U	U					CQDN6S	17:1
				ACETONE	.034	mg/kg		Y Y P	J	04A	05A			CQDN6S	17:1
				BENZENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				BROMOBENZENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				BROMOCHLOROMETHANE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				BROMODICHLOROMETHANE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				BROMOFORM	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				BROMOMETHANE	.011	mg/kg	U	N Y U	R	04A	04B	05B		CQDN6S	17:1
				CARBON DISULFIDE	.0057	mg/kg	U	N Y U	UJ	05B				CQDN6S	17:1
				CARBON TETRACHLORIDE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				CHLOROBENZENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				CHLORODIBROMOMETHANE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				CHLOROETHANE	.011	mg/kg	U	N Y U	UJ	04B	05B			CQDN6S	17:1
				CHLOROFORM	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				CHLOROMETHANE	.011	mg/kg	U	N Y U	U					CQDN6S	17:1

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Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0002	SW8260	SW5030	N 0 1	CIS-1,2-DICHLOROETHENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				CIS-1,3-DICHLOROPROPENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				DIBROMOMETHANE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				DICHLORODIFLUOROMETHANE	.011	mg/kg	U	N Y U	U					CQDN6S	17:1
				ETHYLBENZENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				HEXACHLOROBUTADIENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				ISOPROPYLBENZENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				M-XYLENE & P-XYLENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				METHYLENE CHLORIDE	.003	mg/kg	J B	Y Y F	B	04B	06A	15		CQDN6S	17:1
				N-BUTYLBENZENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				N-PROPYLBENZENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				NAPHTHALENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				O-XYLENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				P-ISOPROPYLTOLUENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				SEC-BUTYLBENZENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				STYRENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				TERT-BUTYLBENZENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				TETRACHLOROETHENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				TOLUENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				TRANS-1,2-DICHLOROETHENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				TRANS-1,3-DICHLOROPROPENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				TRICHLOROETHENE	.0057	mg/kg	U	N Y U	U					CQDN6S	17:1
				TRICHLOROFLUOROMETHANE	.011	mg/kg	U	N Y U	UJ	05B				CQDN6S	17:1
				VINYL CHLORIDE	.011	mg/kg	U	N Y U	U					CQDN6S	17:1
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				1,2-DICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				1,3-DICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				1,4-DICHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				2,2'-OXYBIS(1-CHLOROPROPANE)	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				2,4,5-TRICHLOROPHENOL	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				2,4,6-TRICHLOROPHENOL	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				2,4-DICHLOROPHENOL	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				2,4-DIMETHYLPHENOL	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				2,4-DINITROPHENOL	1.8	mg/kg	U	N Y U	U					CQDN6S	22:0
				2,4-DINITROTOLUENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				2,6-DINITROTOLUENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				2-CHLORONAPHTHALENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				2-CHLOROPHENOL	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				2-METHYLNAPHTHALENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				2-METHYLPHENOL	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				2-NITROANILINE	1.8	mg/kg	U	N Y U	U					CQDN6S	22:0
				2-NITROPHENOL	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				3,3'-DICHLOROBENZIDINE	1.8	mg/kg	U	N Y U	U					CQDN6S	22:0

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0002	SW8270	SW3550	N 0 1	3-NITROANILINE	1.8	mg/kg	U	N Y U	UJ	05B				CQDN6S	22:0
				4,6-DINITRO-2-METHYLPHENOL	1.8	mg/kg	U	N Y U	U					CQDN6S	22:0
				4-BROMOPHENYL PHENYL ETHER	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				4-CHLORO-3-METHYLPHENOL	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				4-CHLOROANILINE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				4-CHLOROPHENYL PHENYL ETHER	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				4-METHYLPHENOL	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				4-NITROANILINE	1.8	mg/kg	U	N Y U	UJ	04B	05B			CQDN6S	22:0
				4-NITROPHENOL	1.8	mg/kg	U	N Y U	U					CQDN6S	22:0
				ACENAPHTHENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				ACENAPHTHYLENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				ANTHRACENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				BENZ(A)ANTHRACENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				BENZO(A)PYRENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				BENZO(B)FLUORANTHENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				BENZO(GHI)PERYLENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				BENZO(K)FLUORANTHENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				BIS(2-CHLOROETHOXY)METHANE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				BIS(2-CHLOROETHYL) ETHER	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				BIS(2-ETHYLHEXYL) PHTHALATE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				BUTYL BENZYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				CARBAZOLE	.38	mg/kg	U	N Y U	UJ	04B	05B			CQDN6S	22:0
				CHRYSENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				DI-N-BUTYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				DI-N-OCTYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				DIBENZ(A,H)ANTHRACENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				DIBENZOFURAN	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				DIETHYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				DIMETHYL PHTHALATE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				FLUORANTHENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				FLUORENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				HEXACHLOROBENZENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				HEXACHLOROBUTADIENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				HEXACHLOROCYCLOPENTADIENE	1.8	mg/kg	U	N Y U	U					CQDN6S	22:0
				HEXACHLOROETHANE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				INDENO(1,2,3-CD)PYRENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				ISOPHORONE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				N-NITROSODI-N-PROPYLAMINE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				N-NITROSODIPHENYLAMINE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				NAPHTHALENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				NITROBENZENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				PENTACHLOROPHENOL	1.8	mg/kg	U	N Y U	U					CQDN6S	22:0
				PHENANTHRENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
				PHENOL	.38	mg/kg	U	N Y U	U					CQDN6S	22:0

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Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0002	SW8270	SW3550	N 0 1	PYRENE	.38	mg/kg	U	N Y U	U					CQDN6S	22:0
KU0003	D2216	NONE	N 0 1	PERCENT MOISTURE				Y Y P						CQDN7S	00:0
	SW6010	SW3050	N 0 1	ALUMINUM	6220	mg/kg		Y Y P						CQDN7S	15:2
				ANTIMONY	6.7	mg/kg	U	N Y U	UJ	08A				CQDN7S	15:2
				ARSENIC	3.8	mg/kg		Y Y P						CQDN7S	15:2
				BARIUM	33.6	mg/kg		Y Y P						CQDN7S	15:2
				BERYLLIUM	0.49	mg/kg	B	Y Y P	J	15				CQDN7S	15:2
				CADMIUM	0.56	mg/kg	U	N Y U	U					CQDN7S	15:2
				CALCIUM	31500	mg/kg		Y Y P						CQDN7S	15:2
				CHROMIUM	23.8	mg/kg		Y Y P	J	08A	08B			CQDN7S	15:2
				COBALT	2.6	mg/kg	B	Y Y P	J	15				CQDN7S	15:2
				COPPER	9.5	mg/kg		Y Y P						CQDN7S	15:2
				IRON	20600	mg/kg		Y Y P						CQDN7S	15:2
				LEAD	13.4	mg/kg		Y Y P	J	08A				CQDN7S	15:2
				MAGNESIUM	16300	mg/kg		Y Y P	J	08A				CQDN7S	15:2
				MANGANESE	115	mg/kg		Y Y P	J	08A				CQDN7S	15:2
				NICKEL	7.7	mg/kg		Y Y P						CQDN7S	15:2
				POTASSIUM	342	mg/kg	B	Y Y P	J	15				CQDN7S	15:2
				SELENIUM	0.90	mg/kg		Y Y P						CQDN7S	15:2
				SILVER	1.1	mg/kg	U	N Y U	U					CQDN7S	15:2
				SODIUM	98.6	mg/kg	B	Y Y F	B	06C	15			CQDN7S	15:2
				THALLIUM	1.1	mg/kg	U	N Y U	U					CQDN7S	15:2
				VANADIUM	26.6	mg/kg		Y Y P						CQDN7S	15:2
				ZINC	20.9	mg/kg		Y Y P	J	08A				CQDN7S	15:2
	SW7471	TOTAL	N 0 1	MERCURY	0.040	mg/kg		Y Y P						CQDN7S	16:1
	SW8260	SW5030	N 0 1	1,1,1,2-TETRACHLOROETHANE	.0056	mg/kg	U	N Y U	U					CQDN7S	10:0
				1,1,1-TRICHLOROETHANE	.0056	mg/kg	U	N Y U	U					CQDN7S	10:0
				1,1,2,2-TETRACHLOROETHANE	.0056	mg/kg	U	N Y U	U					CQDN7S	10:0
				1,1,2-TRICHLOROETHANE	.0056	mg/kg	U	N Y U	U					CQDN7S	10:0
				1,1-DICHLOROETHANE	.0056	mg/kg	U	N Y U	U					CQDN7S	10:0
				1,1-DICHLOROETHENE	.0056	mg/kg	U	N Y U	U					CQDN7S	10:0
				1,1-DICHLOROPROPENE	.0056	mg/kg	U	N Y U	U					CQDN7S	10:0
				1,2,3-TRICHLOROBENZENE	.0056	mg/kg	U	N Y U	UJ	04B	10A			CQDN7S	10:0
				1,2,3-TRICHLOROPROPANE	.0056	mg/kg	U	N Y U	UJ	10A				CQDN7S	10:0
				1,2,4-TRICHLOROBENZENE	.0056	mg/kg	U	N Y U	UJ	04B	10A			CQDN7S	10:0
				1,2,4-TRIMETHYLBENZENE	.0066	mg/kg		Y Y P	J	07A	10A			CQDN7S	10:0
				1,2-DIBROMO-3-CHLOROPROPANE	.011	mg/kg	U	N Y U	UJ	10A				CQDN7S	10:0
				1,2-DIBROMOETHANE	.0056	mg/kg	U	N Y U	U					CQDN7S	10:0
				1,2-DICHLOROBENZENE	.0056	mg/kg	U	N Y U	UJ	10A				CQDN7S	10:0
				1,2-DICHLOROETHANE	.0056	mg/kg	U	N Y U	U					CQDN7S	10:0
				1,2-DICHLOROPROPANE	.0056	mg/kg	U	N Y U	U					CQDN7S	10:0
				1,3,5-TRIMETHYLBENZENE	.0056	mg/kg	U	N Y U	UJ	10A				CQDN7S	10:0
				1,3-DICHLOROBENZENE	.0056	mg/kg	U	N Y U	UJ	10A				CQDN7S	10:0

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Fort McClellan

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KU0003	SW8260	SW5030	N 0 1	1,3-DICHLOROPROPANE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				1,4-DICHLOROBENZENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CQDN7S	10:0
				2,2-DICHLOROPROPANE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				2-BUTANONE	.0038	mg/kg	J	Y	Y	P	J	04A	05A	07A	15	CQDN7S	10:0
				2-CHLOROTOLUENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CQDN7S	10:0
				2-HEXANONE	.022	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				4-CHLOROTOLUENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CQDN7S	10:0
				4-METHYL-2-PENTANONE	.022	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				ACETONE	.022	mg/kg		Y	Y	P	J	04A	05A	07A		CQDN7S	10:0
				BENZENE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				BROMOBENZENE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				BROMOCHLOROMETHANE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				BROMODICHLOROMETHANE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				BROMOFORM	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				BROMOMETHANE	.011	mg/kg	U	N	Y	U	R	04A	04B	05B		CQDN7S	10:0
				CARBON DISULFIDE	.0056	mg/kg	U	N	Y	U	UJ	05B				CQDN7S	10:0
				CARBON TETRACHLORIDE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				CHLOROBENZENE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				CHLORODIBROMOMETHANE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				CHLOROETHANE	.011	mg/kg	U	N	Y	U	UJ	04B	05B			CQDN7S	10:0
				CHLOROFORM	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				CHLOROMETHANE	.011	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				CIS-1,2-DICHLOROETHENE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				CIS-1,3-DICHLOROPROPENE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				DIBROMOMETHANE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				DICHLORODIFLUOROMETHANE	.011	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				ETHYLBENZENE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				HEXACHLOROBUTADIENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CQDN7S	10:0
				ISOPROPYLBENZENE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				M-XYLENE & P-XYLENE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				METHYLENE CHLORIDE	.0027	mg/kg	J B	Y	Y	F	B	04B	06A	07A	15	CQDN7S	10:0
				N-BUTYLBENZENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CQDN7S	10:0
				N-PROPYLBENZENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CQDN7S	10:0
				NAPHTHALENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CQDN7S	10:0
				O-XYLENE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				P-ISOPROPYLTOLUENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CQDN7S	10:0
				SEC-BUTYLBENZENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CQDN7S	10:0
				STYRENE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				TERT-BUTYLBENZENE	.0056	mg/kg	U	N	Y	U	UJ	10A				CQDN7S	10:0
				TETRACHLOROETHENE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				TOLUENE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				TRANS-1,2-DICHLOROETHENE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				TRANS-1,3-DICHLOROPROPENE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0
				TRICHLOROETHENE	.0056	mg/kg	U	N	Y	U	U					CQDN7S	10:0

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Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0003	SW8260	SW5030	N 0 1	TRICHLOROFLUOROMETHANE	.011	mg/kg	U	N Y U	UJ	05B				CQDN7S	10:0
				VINYL CHLORIDE	.011	mg/kg	U	N Y U	U					CQDN7S	10:0
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				1,2-DICHLOROBENZENE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				1,3-DICHLOROBENZENE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				1,4-DICHLOROBENZENE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				2,2'-OXYBIS(1-CHLOROPROPANE)	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				2,4,5-TRICHLOROPHENOL	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				2,4,6-TRICHLOROPHENOL	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				2,4-DICHLOROPHENOL	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				2,4-DIMETHYLPHENOL	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				2,4-DINITROPHENOL	1.8	mg/kg	U	N Y U	U					CQDN7S	22:4
				2,4-DINITROTOLUENE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				2,6-DINITROTOLUENE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				2-CHLORONAPHTHALENE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				2-CHLOROPHENOL	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				2-METHYLNAPHTHALENE	.043	mg/kg	J	Y Y P	J	15				CQDN7S	22:4
				2-METHYLPHENOL	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				2-NITROANILINE	1.8	mg/kg	U	N Y U	U					CQDN7S	22:4
				2-NITROPHENOL	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				3,3'-DICHLOROBENZIDINE	1.8	mg/kg	U	N Y U	U					CQDN7S	22:4
				3-NITROANILINE	1.8	mg/kg	U	N Y U	UJ	05B				CQDN7S	22:4
				4,6-DINITRO-2-METHYLPHENOL	1.8	mg/kg	U	N Y U	U					CQDN7S	22:4
				4-BROMOPHENYL PHENYL ETHER	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				4-CHLORO-3-METHYLPHENOL	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				4-CHLOROANILINE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				4-CHLOROPHENYL PHENYL ETHER	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				4-METHYLPHENOL	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				4-NITROANILINE	1.8	mg/kg	U	N Y U	UJ	04B	05B			CQDN7S	22:4
				4-NITROPHENOL	1.8	mg/kg	U	N Y U	U					CQDN7S	22:4
				ACENAPHTHENE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				ACENAPHTHYLENE	.13	mg/kg	J	Y Y P	J	15				CQDN7S	22:4
				ANTHRACENE	.087	mg/kg	J	Y Y P	J	15				CQDN7S	22:4
				BENZ(A)ANTHRACENE	.12	mg/kg	J	Y Y P	J	15				CQDN7S	22:4
				BENZO(A)PYRENE	.21	mg/kg	J	Y Y P	J	15				CQDN7S	22:4
				BENZO(B)FLUORANTHENE	.3	mg/kg	J	Y Y P	J	15				CQDN7S	22:4
				BENZO(GHI)PERYLENE	.058	mg/kg	J	Y Y P	J	15				CQDN7S	22:4
				BENZO(K)FLUORANTHENE	.2	mg/kg	J	Y Y P	J	15				CQDN7S	22:4
				BIS(2-CHLOROETHOXY)METHANE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				BIS(2-CHLOROETHYL) ETHER	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				BIS(2-ETHYLHEXYL) PHTHALATE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				BUTYL BENZYL PHTHALATE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				CARBAZOLE	.05	mg/kg	J	Y Y P	J	04B	05B	15		CQDN7S	22:4

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KU0003	SW8270	SW3550	N 0 1	CHRYSENE	.16	mg/kg	J	Y Y P	J	15				CQDN7S	22:4
				DI-N-BUTYL PHTHALATE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				DI-N-OCTYL PHTHALATE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				DIBENZ(A,H)ANTHRACENE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				DIBENZOFURAN	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				DIETHYL PHTHALATE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				DIMETHYL PHTHALATE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				FLUORANTHENE	.11	mg/kg	J	Y Y P	J	15				CQDN7S	22:4
				FLUORENE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				HEXACHLOROBENZENE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				HEXACHLOROBUTADIENE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				HEXACHLOROCYCLOPENTADIENE	1.8	mg/kg	U	N Y U	U					CQDN7S	22:4
				HEXACHLOROETHANE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				INDENO(1,2,3-CD)PYRENE	.075	mg/kg	J	Y Y P	J	15				CQDN7S	22:4
				ISOPHORONE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				N-NITROSODI-N-PROPYLAMINE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				N-NITROSODIPHENYLAMINE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				NAPHTHALENE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				NITROBENZENE	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				PENTACHLOROPHENOL	1.8	mg/kg	U	N Y U	U					CQDN7S	22:4
				PHENANTHRENE	.026	mg/kg		Y Y P						CQDN7S	22:4
				PHENOL	.37	mg/kg	U	N Y U	U					CQDN7S	22:4
				PYRENE	.11	mg/kg	J	Y Y P	J	15				CQDN7S	22:4
KU0004	D2216	NONE	N 0 1	PERCENT MOISTURE				Y Y P						CQDNAS	00:0
	SW6010	SW3050	N 0 1	ALUMINUM	9830	mg/kg		Y Y P						CQDNAS	15:3
				ANTIMONY	7.0	mg/kg	U	N Y U	UJ	08A				CQDNAS	15:3
				ARSENIC	4.8	mg/kg		Y Y P						CQDNAS	15:3
				BARIUM	66.4	mg/kg		Y Y P						CQDNAS	15:3
				BERYLLIUM	0.97	mg/kg		Y Y P						CQDNAS	15:3
				CADMIUM	0.59	mg/kg	U	N Y U	U					CQDNAS	15:3
				CALCIUM	1030	mg/kg		Y Y P						CQDNAS	15:3
				CHROMIUM	13.0	mg/kg		Y Y P	J	08A	08B			CQDNAS	15:3
				COBALT	4.0	mg/kg	B	Y Y P	J	15				CQDNAS	15:3
				COPPER	19.5	mg/kg		Y Y P						CQDNAS	15:3
				IRON	27000	mg/kg		Y Y P						CQDNAS	15:3
				LEAD	12.4	mg/kg		Y Y P	J	08B				CQDNAS	15:3
				MAGNESIUM	2870	mg/kg		Y Y P	J	08A				CQDNAS	15:3
				MANGANESE	35.0	mg/kg		Y Y P	J	08A				CQDNAS	15:3
				NICKEL	13.9	mg/kg		Y Y P						CQDNAS	15:3
				POTASSIUM	385	mg/kg	B	Y Y P	J	15				CQDNAS	15:3
				SELENIUM	0.85	mg/kg		Y Y P						CQDNAS	15:3
				SILVER	1.2	mg/kg	U	N Y U	U					CQDNAS	15:3
				SODIUM	81.6	mg/kg	B	Y Y F	B	06C	15			CQDNAS	15:3

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0004	SW6010	SW3050	N 0 1	THALLIUM	0.43	mg/kg	B	Y Y F	B	06A	15			CQDNAS	15:3
				VANADIUM	33.1	mg/kg		Y Y P						CQDNAS	15:3
				ZINC	46.3	mg/kg		Y Y P	J	08A				CQDNAS	15:3
	SW7471	TOTAL	N 0 1	MERCURY	0.025	mg/kg	B	Y Y P	J	15				CQDNAS	16:2
	SW8260	SW5030	N 0 1	1,1,1,2-TETRACHLOROETHANE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,1,1-TRICHLOROETHANE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,1,2,2-TETRACHLOROETHANE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,1,2-TRICHLOROETHANE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,1-DICHLOROETHANE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,1-DICHLOROETHENE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,1-DICHLOROPROPENE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,2,3-TRICHLOROBENZENE	.0059	mg/kg	U	N Y U	UJ	04B				CQDNAS	13:2
				1,2,3-TRICHLOROPROPANE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,2,4-TRICHLOROBENZENE	.0059	mg/kg	U	N Y U	UJ	04B				CQDNAS	13:2
				1,2,4-TRIMETHYLBENZENE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,2-DIBROMOETHANE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,2-DICHLOROBENZENE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,2-DICHLOROETHANE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,2-DICHLOROPROPANE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,3,5-TRIMETHYLBENZENE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,3-DICHLOROBENZENE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,3-DICHLOROPROPANE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				1,4-DICHLOROBENZENE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				2,2-DICHLOROPROPANE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				2-BUTANONE	.023	mg/kg	U	N Y U	R	04A	05A			CQDNAS	13:2
				2-CHLOROTOLUENE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				2-HEXANONE	.023	mg/kg	U	N Y U	U					CQDNAS	13:2
				4-CHLOROTOLUENE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				4-METHYL-2-PENTANONE	.023	mg/kg	U	N Y U	U					CQDNAS	13:2
				ACETONE	.86	mg/kg	E	Y N F	R	16				CQDNAS	13:2
				BENZENE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				BROMOBENZENE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				BROMOCHLOROMETHANE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				BROMODICHLOROMETHANE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				BROMOFORM	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				BROMOMETHANE	.012	mg/kg	U	N Y U	R	04A	04B	05B		CQDNAS	13:2
				CARBON DISULFIDE	.0059	mg/kg	U	N Y U	UJ	05B				CQDNAS	13:2
				CARBON TETRACHLORIDE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				CHLOROBENZENE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				CHLORODIBROMOMETHANE	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2
				CHLOROETHANE	.012	mg/kg	U	N Y U	UJ	04B	05B			CQDNAS	13:2
				CHLOROFORM	.0059	mg/kg	U	N Y U	U					CQDNAS	13:2

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0004	SW8260	SW5030	N	0	1	CHLOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						CIS-1,2-DICHLOROETHENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						CIS-1,3-DICHLOROPROPENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						DIBROMOMETHANE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						ETHYLBENZENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						HEXACHLOROBUTADIENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						ISOPROPYLBENZENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						M-XYLENE & P-XYLENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						METHYLENE CHLORIDE	.0033	mg/kg	J B	Y	Y	F	B	04B	06A	15		CQDNAS	13:2
						N-BUTYLBENZENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						N-PROPYLBENZENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						NAPHTHALENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						O-XYLENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						P-ISOPROPYLTOLUENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						SEC-BUTYLBENZENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						STYRENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						TERT-BUTYLBENZENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						TETRACHLOROETHENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						TOLUENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						TRANS-1,2-DICHLOROETHENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						TRANS-1,3-DICHLOROPROPENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						TRICHLOROETHENE	.0059	mg/kg	U	N	Y	U	U					CQDNAS	13:2
						TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N	Y	U	UJ	05B				CQDNAS	13:2
						VINYL CHLORIDE	.012	mg/kg	U	N	Y	U	U					CQDNAS	13:2
	SW8260	SW5030	N	1	1	ACETONE	.38	mg/kg	J D B	Y	Y	F	B	04A	05A	05B	06A	CQDNAS	16:5
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						1,2-DICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						1,3-DICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						1,4-DICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						2,2'-OXYBIS(1-CHLOROPROPANE)	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						2,4,5-TRICHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						2,4,6-TRICHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						2,4-DICHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						2,4-DIMETHYLPHENOL	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						2,4-DINITROPHENOL	1.9	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						2,4-DINITROTOLUENE	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						2,6-DINITROTOLUENE	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						2-CHLORONAPHTHALENE	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						2-CHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						2-METHYLNAPHTHALENE	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						2-METHYLPHENOL	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						2-NITROANILINE	1.9	mg/kg	U	N	Y	U	U					CQDNAS	00:5

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0004	SW8270	SW3550	N 0 1	2-NITROPHENOL	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				3,3'-DICHLOROBENZIDINE	1.9	mg/kg	U	N Y U	U					CQDNAS	00:5
				3-NITROANILINE	1.9	mg/kg	U	N Y U	UJ	05B				CQDNAS	00:5
				4,6-DINITRO-2-METHYLPHENOL	1.9	mg/kg	U	N Y U	U					CQDNAS	00:5
				4-BROMOPHENYL PHENYL ETHER	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				4-CHLORO-3-METHYLPHENOL	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				4-CHLOROANILINE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				4-CHLOROPHENYL PHENYL ETHER	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				4-METHYLPHENOL	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				4-NITROANILINE	1.9	mg/kg	U	N Y U	UJ	04B	05B			CQDNAS	00:5
				4-NITROPHENOL	1.9	mg/kg	U	N Y U	U					CQDNAS	00:5
				ACENAPHTHENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				ACENAPHTHYLENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				ANTHRACENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				BENZ(A)ANTHRACENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				BENZO(A)PYRENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				BENZO(B)FLUORANTHENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				BENZO(GHI)PERYLENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				BENZO(K)FLUORANTHENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				BIS(2-CHLOROETHOXY)METHANE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				BIS(2-CHLOROETHYL) ETHER	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				BIS(2-ETHYLHEXYL) PHTHALATE	.069	mg/kg	J B	Y Y F	B	06A	15			CQDNAS	00:5
				BUTYL BENZYL PHTHALATE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				CARBAZOLE	.39	mg/kg	U	N Y U	UJ	04B	05B			CQDNAS	00:5
				CHRYSENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				DI-N-BUTYL PHTHALATE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				DI-N-OCTYL PHTHALATE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				DIBENZ(A,H)ANTHRACENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				DIBENZOFURAN	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				DIETHYL PHTHALATE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				DIMETHYL PHTHALATE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				FLUORANTHENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				FLUORENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				HEXACHLOROBENZENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				HEXACHLOROBUTADIENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				HEXACHLOROCYCLOPENTADIENE	1.9	mg/kg	U	N Y U	U					CQDNAS	00:5
				HEXACHLOROETHANE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				INDENO(1,2,3-CD)PYRENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				ISOPHORONE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				N-NITROSODI-N-PROPYLAMINE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				N-NITROSODIPHENYLAMINE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				NAPHTHALENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				NITROBENZENE	.39	mg/kg	U	N Y U	U					CQDNAS	00:5
				PENTACHLOROPHENOL	1.9	mg/kg	U	N Y U	U					CQDNAS	00:5

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0004	SW8270	SW3550	N	0	1	PHENANTHRENE	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						PHENOL	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
						PYRENE	.39	mg/kg	U	N	Y	U	U					CQDNAS	00:5
KU0005	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQ12AS	00:0
	SW6010	SW3050	N	0	1	ALUMINUM	10400	mg/kg		Y	Y	P						CQ12AS	15:0
						ANTIMONY	7.3	mg/kg	U	N	Y	U	U					CQ12AS	15:0
						BARIUM	64.8	mg/kg		Y	Y	P						CQ12AS	15:0
						BERYLLIUM	0.67	mg/kg		Y	Y	P						CQ12AS	15:0
						CADMIUM	0.61	mg/kg	U	N	Y	U	U					CQ12AS	15:0
						CALCIUM	9580	mg/kg		Y	Y	P						CQ12AS	15:0
						CHROMIUM	20.0	mg/kg		Y	Y	P						CQ12AS	15:0
						COBALT	6.1	mg/kg	U	N	Y	U	U					CQ12AS	15:0
						COPPER	24.0	mg/kg		Y	Y	P						CQ12AS	15:0
						IRON	42500	mg/kg		Y	Y	P						CQ12AS	15:0
						MAGNESIUM	1790	mg/kg		Y	Y	P						CQ12AS	15:0
						MANGANESE	456	mg/kg		Y	Y	P						CQ12AS	15:0
						NICKEL	8.9	mg/kg		Y	Y	P	J	17				CQ12AS	15:0
						POTASSIUM	418	mg/kg	B	Y	Y	P	J	15				CQ12AS	15:0
						SILVER	2.7	mg/kg		Y	Y	P						CQ12AS	15:0
						SODIUM	65.5	mg/kg	B	Y	Y	P	J	15				CQ12AS	15:0
						VANADIUM	11.8	mg/kg		Y	Y	P						CQ12AS	15:0
						ZINC	45.6	mg/kg		Y	Y	P	J	17				CQ12AS	15:0
	SW6010	SW3050	N	1	1	ARSENIC	15.8	mg/kg		Y	Y	P	J	17				CQ12AS	20:5
						LEAD	17.2	mg/kg		Y	Y	P						CQ12AS	20:5
						SELENIUM	2.2	mg/kg		Y	Y	P						CQ12AS	20:5
						THALLIUM	1.2	mg/kg	U	N	Y	U	U					CQ12AS	20:5
	SW7471	TOTAL	N	0	1	MERCURY	0.056	mg/kg		Y	Y	P						CQ12AS	17:1
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
						1,1,1,2-TETRACHLOROETHANE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
						1,1,1-TRICHLOROETHANE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
						1,1,1-TRICHLOROETHANE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
						1,1,2,2-TETRACHLOROETHANE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
						1,1,2,2-TETRACHLOROETHANE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
						1,1,2-TRICHLOROETHANE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
						1,1,2-TRICHLOROETHANE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
						1,1-DICHLOROETHANE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
						1,1-DICHLOROETHANE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
						1,1-DICHLOROETHENE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
						1,1-DICHLOROETHENE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
						1,1-DICHLOROPROPENE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
						1,1-DICHLOROPROPENE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
						1,2,3-TRICHLOROBENZENE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
						1,2,3-TRICHLOROBENZENE	.0061	mg/kg	U	N	Y	U	UJ	04B	10A			CQ12AS	21:1

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0005	SW8260	SW5030	N 0 1	1,2,3-TRICHLOROPROPANE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				1,2,3-TRICHLOROPROPANE	.0061	mg/kg	U	N Y U	UJ	10A				CQ12AS	21:1
				1,2,4-TRICHLOROBENZENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				1,2,4-TRICHLOROBENZENE	.0061	mg/kg	U	N Y U	UJ	04B	10A			CQ12AS	21:1
				1,2,4-TRIMETHYLBENZENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				1,2,4-TRIMETHYLBENZENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ12AS	21:1
				1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N N U	R	16				CQ12AS	00:5
				1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N Y U	R	04A	05A	10A		CQ12AS	21:1
				1,2-DIBROMOETHANE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				1,2-DIBROMOETHANE	.0061	mg/kg	U	N Y U	U					CQ12AS	21:1
				1,2-DICHLOROBENZENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				1,2-DICHLOROBENZENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ12AS	21:1
				1,2-DICHLOROETHANE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				1,2-DICHLOROETHANE	.0061	mg/kg	U	N Y U	U					CQ12AS	21:1
				1,2-DICHLOROPROPANE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				1,2-DICHLOROPROPANE	.0061	mg/kg	U	N Y U	U					CQ12AS	21:1
				1,3,5-TRIMETHYLBENZENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				1,3,5-TRIMETHYLBENZENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ12AS	21:1
				1,3-DICHLOROBENZENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				1,3-DICHLOROBENZENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ12AS	21:1
				1,3-DICHLOROPROPANE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				1,3-DICHLOROPROPANE	.0061	mg/kg	U	N Y U	U					CQ12AS	21:1
				1,4-DICHLOROBENZENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				1,4-DICHLOROBENZENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ12AS	21:1
				2,2-DICHLOROPROPANE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				2,2-DICHLOROPROPANE	.0061	mg/kg	U	N Y U	U					CQ12AS	21:1
				2-BUTANONE	.024	mg/kg	U	N N U	R	16				CQ12AS	00:5
				2-BUTANONE	.024	mg/kg	U	N Y U	R	04A	05A			CQ12AS	21:1
				2-CHLOROTOLUENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				2-CHLOROTOLUENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ12AS	21:1
				2-HEXANONE	.024	mg/kg	U	N N U	R	16				CQ12AS	00:5
				2-HEXANONE	.024	mg/kg	U	N Y U	U					CQ12AS	21:1
				4-CHLOROTOLUENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				4-CHLOROTOLUENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ12AS	21:1
				4-METHYL-2-PENTANONE	.024	mg/kg	U	N N U	R	16				CQ12AS	00:5
				4-METHYL-2-PENTANONE	.024	mg/kg	U	N Y U	U					CQ12AS	21:1
				ACETONE	.015	mg/kg	J B	Y Y F	B	04	05A	06A	06C	CQ12AS	21:1
				ACETONE	.017	mg/kg	J B	Y N F	R	16				CQ12AS	00:5
				BENZENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				BENZENE	.0061	mg/kg	U	N Y U	U					CQ12AS	21:1
				BROMOBENZENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				BROMOBENZENE	.0061	mg/kg	U	N Y U	U					CQ12AS	21:1
				BROMOCHLOROMETHANE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				BROMOCHLOROMETHANE	.0061	mg/kg	U	N Y U	U					CQ12AS	21:1

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0005	SW8260	SW5030	N 0 1	BROMODICHLOROMETHANE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				BROMODICHLOROMETHANE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				BROMOFORM	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				BROMOFORM	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				BROMOMETHANE	.0019	mg/kg	J B	Y	Y	F	B	04B	06A	15		CQ12AS	21:1
				BROMOMETHANE	.0026	mg/kg	J B	Y	N	F	R	16				CQ12AS	00:5
				CARBON DISULFIDE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				CARBON DISULFIDE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				CARBON TETRACHLORIDE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				CARBON TETRACHLORIDE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				CHLOROBENZENE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				CHLOROBENZENE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				CHLORODIBROMOMETHANE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				CHLORODIBROMOMETHANE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				CHLOROETHANE	.012	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				CHLOROETHANE	.012	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				CHLOROFORM	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				CHLOROFORM	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				CHLOROMETHANE	.012	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				CHLOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				CIS-1,2-DICHLOROETHENE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				CIS-1,2-DICHLOROETHENE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				CIS-1,3-DICHLOROPROPENE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				CIS-1,3-DICHLOROPROPENE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				DIBROMOMETHANE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				DIBROMOMETHANE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				ETHYLBENZENE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				ETHYLBENZENE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				HEXACHLOROBUTADIENE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				HEXACHLOROBUTADIENE	.0061	mg/kg	U	N	Y	U	UJ	10A				CQ12AS	21:1
				ISOPROPYLBENZENE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				ISOPROPYLBENZENE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				M-XYLENE & P-XYLENE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				M-XYLENE & P-XYLENE	.0061	mg/kg	U	N	Y	U	U					CQ12AS	21:1
				METHYLENE CHLORIDE	.0028	mg/kg	J B	Y	Y	F	B	06A	15			CQ12AS	21:1
				METHYLENE CHLORIDE	.0043	mg/kg	J B	Y	N	F	R	16				CQ12AS	00:5
				N-BUTYLBENZENE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				N-BUTYLBENZENE	.0061	mg/kg	U	N	Y	U	UJ	10A				CQ12AS	21:1
				N-PROPYLBENZENE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				N-PROPYLBENZENE	.0061	mg/kg	U	N	Y	U	UJ	10A				CQ12AS	21:1
				NAPHTHALENE	.0061	mg/kg	U	N	N	U	R	16				CQ12AS	00:5
				NAPHTHALENE	.0061	mg/kg	U	N	Y	U	UJ	04B	10A			CQ12AS	21:1

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0005	SW8260	SW5030	N 0 1	O-XYLENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				O-XYLENE	.0061	mg/kg	U	N Y U	U					CQ12AS	21:1
				P-ISOPROPYLTOLUENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				P-ISOPROPYLTOLUENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ12AS	21:1
				SEC-BUTYLBENZENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				SEC-BUTYLBENZENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ12AS	21:1
				STYRENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				STYRENE	.0061	mg/kg	U	N Y U	U					CQ12AS	21:1
				TERT-BUTYLBENZENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				TERT-BUTYLBENZENE	.0061	mg/kg	U	N Y U	UJ	10A				CQ12AS	21:1
				TETRACHLOROETHENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				TETRACHLOROETHENE	.0061	mg/kg	U	N Y U	U					CQ12AS	21:1
				TOLUENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				TOLUENE	.0061	mg/kg	U	N Y U	U					CQ12AS	21:1
				TRANS-1,2-DICHLOROETHENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				TRANS-1,2-DICHLOROETHENE	.0061	mg/kg	U	N Y U	U					CQ12AS	21:1
				TRANS-1,3-DICHLOROPROPENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				TRANS-1,3-DICHLOROPROPENE	.0061	mg/kg	U	N Y U	U					CQ12AS	21:1
				TRICHLOROETHENE	.0061	mg/kg	U	N N U	R	16				CQ12AS	00:5
				TRICHLOROETHENE	.0061	mg/kg	U	N Y U	U					CQ12AS	21:1
				TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N N U	R	16				CQ12AS	00:5
				TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N Y U	U					CQ12AS	21:1
				VINYL CHLORIDE	.012	mg/kg	U	N N U	R	16				CQ12AS	00:5
				VINYL CHLORIDE	.012	mg/kg	U	N Y U	U					CQ12AS	21:1
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				1,2-DICHLOROBENZENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				1,3-DICHLOROBENZENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				1,4-DICHLOROBENZENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				2,2'-OXYBIS(1-CHLOROPROPANE)	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				2,4,5-TRICHLOROPHENOL	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				2,4,6-TRICHLOROPHENOL	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				2,4-DICHLOROPHENOL	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				2,4-DIMETHYLPHENOL	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				2,4-DINITROPHENOL	1.9	mg/kg	U	N Y U	U					CQ12AS	18:1
				2,4-DINITROTOLUENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				2,6-DINITROTOLUENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				2-CHLORONAPHTHALENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				2-CHLOROPHENOL	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				2-METHYLNAPHTHALENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				2-METHYLPHENOL	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				2-NITROANILINE	1.9	mg/kg	U	N Y U	U					CQ12AS	18:1
				2-NITROPHENOL	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				3,3'-DICHLOROBENZIDINE	1.9	mg/kg	U	N Y U	U					CQ12AS	18:1

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0005	SW8270	SW3550	N 0 1	3-NITROANILINE	1.9	mg/kg	U	N Y U	U					CQ12AS	18:1
				4,6-DINITRO-2-METHYLPHENOL	1.9	mg/kg	U	N Y U	U					CQ12AS	18:1
				4-BROMOPHENYL PHENYL ETHER	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				4-CHLORO-3-METHYLPHENOL	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				4-CHLOROANILINE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				4-CHLOROPHENYL PHENYL ETHER	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				4-METHYLPHENOL	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				4-NITROANILINE	1.9	mg/kg	U	N Y U	U					CQ12AS	18:1
				4-NITROPHENOL	1.9	mg/kg	U	N Y U	U					CQ12AS	18:1
				ACENAPHTHENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				ACENAPHTHYLENE	.058	mg/kg	J	Y Y P	J	15				CQ12AS	18:1
				ANTHRACENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				BENZ(A)ANTHRACENE	.044	mg/kg	J	Y Y P	J	15				CQ12AS	18:1
				BENZO(A)PYRENE	.089	mg/kg	J	Y Y P	J	15				CQ12AS	18:1
				BENZO(B)FLUORANTHENE	.097	mg/kg	J	Y Y P	J	15	17			CQ12AS	18:1
				BENZO(GHI)PERYLENE	.098	mg/kg	J	Y Y P	J	15				CQ12AS	18:1
				BENZO(K)FLUORANTHENE	.078	mg/kg	J	Y Y P	J	15				CQ12AS	18:1
				BIS(2-CHLOROETHOXY)METHANE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				BIS(2-CHLOROETHYL) ETHER	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				BIS(2-ETHYLHEXYL) PHTHALATE	.083	mg/kg	J B	Y Y F	B	06A	15			CQ12AS	18:1
				BUTYL BENZYL PHTHALATE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				CARBAZOLE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				CHRYSENE	.067	mg/kg	J	Y Y P	J	15				CQ12AS	18:1
				DI-N-BUTYL PHTHALATE	.055	mg/kg	J B	Y Y F	B	06A	15			CQ12AS	18:1
				DI-N-OCTYL PHTHALATE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				DIBENZ(A,H)ANTHRACENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				DIBENZOFURAN	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				DIETHYL PHTHALATE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				DIMETHYL PHTHALATE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				FLUORANTHENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				FLUORENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				HEXACHLOROBENZENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				HEXACHLOROBUTADIENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				HEXACHLOROCYCLOPENTADIENE	1.9	mg/kg	U	N Y U	UJ	04B				CQ12AS	18:1
				HEXACHLOROETHANE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				INDENO(1,2,3-CD)PYRENE	.081	mg/kg	J	Y Y P	J	15				CQ12AS	18:1
				ISOPHORONE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				N-NITROSODI-N-PROPYLAMINE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				N-NITROSODIPHENYLAMINE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				NAPHTHALENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				NITROBENZENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				PENTACHLOROPHENOL	1.9	mg/kg	U	N Y U	U					CQ12AS	18:1
				PHENANTHRENE	.4	mg/kg	U	N Y U	U					CQ12AS	18:1
				PHENOL	.4	mg/kg	U	N Y U	U					CQ12AS	18:1

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0005	SW8270	SW3550	N 0 1	PYRENE	.051	mg/kg	J	Y Y P	J	15				CQ12AS	18:1
KU0006	D2216	NONE	N 0 1	PERCENT MOISTURE				Y Y						CQ12ES	00:0
	SW6010	SW3050	N 0 1	ALUMINUM	10600	mg/kg		Y Y						CQ12ES	15:1
				ANTIMONY	7.3	mg/kg	U	N Y	U					CQ12ES	15:1
				BARIUM	70.9	mg/kg		Y Y						CQ12ES	15:1
				BERYLLIUM	0.86	mg/kg		Y Y						CQ12ES	15:1
				CADMIUM	0.61	mg/kg	U	N Y	U					CQ12ES	15:1
				CALCIUM	8730	mg/kg		Y Y						CQ12ES	15:1
				CHROMIUM	32.1	mg/kg		Y Y						CQ12ES	15:1
				COBALT	6.1	mg/kg	U	N Y	U					CQ12ES	15:1
				COPPER	32.1	mg/kg		Y Y						CQ12ES	15:1
				IRON	47600	mg/kg		Y Y						CQ12ES	15:1
				MAGNESIUM	1560	mg/kg		Y Y						CQ12ES	15:1
				MANGANESE	404	mg/kg		Y Y						CQ12ES	15:1
				NICKEL	16.5	mg/kg		Y Y	J	17				CQ12ES	15:1
				POTASSIUM	399	mg/kg	B	Y Y	J	15				CQ12ES	15:1
				SILVER	3.5	mg/kg		Y Y						CQ12ES	15:1
				SODIUM	59.3	mg/kg	B	Y Y	J	15				CQ12ES	15:1
				VANADIUM	13.3	mg/kg		Y Y						CQ12ES	15:1
				ZINC	90.2	mg/kg		Y Y	J	17				CQ12ES	15:1
	SW6010	SW3050	N 1 1	ARSENIC	34.8	mg/kg		Y Y	J	17				CQ12ES	21:0
				LEAD	20.7	mg/kg		Y Y						CQ12ES	21:0
				SELENIUM	2.4	mg/kg		Y Y						CQ12ES	21:0
				THALLIUM	0.56	mg/kg	B	Y Y	J	15				CQ12ES	21:0
	SW7471	TOTAL	N 0 1	MERCURY	0.041	mg/kg		Y Y						CQ12ES	17:1
	SW8260	SW5030	N 0 1	1,1,1,2-TETRACHLOROETHANE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,1,1,2-TETRACHLOROETHANE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				1,1,1-TRICHLOROETHANE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,1,1-TRICHLOROETHANE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				1,1,2,2-TETRACHLOROETHANE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,1,2,2-TETRACHLOROETHANE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				1,1,2-TRICHLOROETHANE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,1,2-TRICHLOROETHANE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				1,1-DICHLOROETHANE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,1-DICHLOROETHANE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				1,1-DICHLOROETHENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,1-DICHLOROETHENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				1,1-DICHLOROPROPENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,1-DICHLOROPROPENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				1,2,3-TRICHLOROBENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,2,3-TRICHLOROBENZENE	.0061	mg/kg	U	N Y	UJ	04B	10A			CQ12ES	21:3
				1,2,3-TRICHLOROPROPANE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,2,3-TRICHLOROPROPANE	.0061	mg/kg	U	N Y	UJ	10A				CQ12ES	21:3

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Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0006	SW8260	SW5030	N 0 1	1,2,4-TRICHLOROBENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,2,4-TRICHLOROBENZENE	.0061	mg/kg	U	N Y	UJ	04B	10A			CQ12ES	21:3
				1,2,4-TRIMETHYLBENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,2,4-TRIMETHYLBENZENE	.0061	mg/kg	U	N Y	UJ	10A				CQ12ES	21:3
				1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N Y	R	04A	05A	10A		CQ12ES	21:3
				1,2-DIBROMOETHANE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,2-DIBROMOETHANE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				1,2-DICHLOROBENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,2-DICHLOROBENZENE	.0061	mg/kg	U	N Y	UJ	10A				CQ12ES	21:3
				1,2-DICHLOROETHANE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,2-DICHLOROETHANE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				1,2-DICHLOROPROPANE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,2-DICHLOROPROPANE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				1,3,5-TRIMETHYLBENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,3,5-TRIMETHYLBENZENE	.0061	mg/kg	U	N Y	UJ	10A				CQ12ES	21:3
				1,3-DICHLOROBENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,3-DICHLOROBENZENE	.0061	mg/kg	U	N Y	UJ	10A				CQ12ES	21:3
				1,3-DICHLOROPROPANE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,3-DICHLOROPROPANE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				1,4-DICHLOROBENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				1,4-DICHLOROBENZENE	.0061	mg/kg	U	N Y	UJ	10A				CQ12ES	21:3
				2,2-DICHLOROPROPANE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				2,2-DICHLOROPROPANE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				2-BUTANONE	.0035	mg/kg	J	Y Y	J	04A	05A	15		CQ12ES	21:3
				2-BUTANONE	.024	mg/kg	U	N N	R	16				CQ12ES	01:2
				2-CHLOROTOLUENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				2-CHLOROTOLUENE	.0061	mg/kg	U	N Y	UJ	10A				CQ12ES	21:3
				2-HEXANONE	.024	mg/kg	U	N N	R	16				CQ12ES	01:2
				2-HEXANONE	.024	mg/kg	U	N Y	U					CQ12ES	21:3
				4-CHLOROTOLUENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				4-CHLOROTOLUENE	.0061	mg/kg	U	N Y	UJ	10A				CQ12ES	21:3
				4-METHYL-2-PENTANONE	.024	mg/kg	U	N N	R	16				CQ12ES	01:2
				4-METHYL-2-PENTANONE	.024	mg/kg	U	N Y	U					CQ12ES	21:3
				ACETONE	.013	mg/kg	J B	Y N	R	16				CQ12ES	01:2
				ACETONE	.017	mg/kg	J B	Y Y	B	04	05A	06A	15	CQ12ES	21:3
				BENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				BENZENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				BROMOBENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				BROMOBENZENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				BROMOCHLOROMETHANE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				BROMOCHLOROMETHANE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				BROMODICHLOROMETHANE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				BROMODICHLOROMETHANE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0006	SW8260	SW5030	N 0 I	BROMOFORM	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				BROMOFORM	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				BROMOMETHANE	.0018	mg/kg	J B	Y Y	B	04B	06A	15		CQ12ES	21:3
				BROMOMETHANE	.002	mg/kg	J B	Y N	R	16				CQ12ES	01:2
				CARBON DISULFIDE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				CARBON DISULFIDE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				CARBON TETRACHLORIDE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				CARBON TETRACHLORIDE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				CHLOROBENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				CHLOROBENZENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				CHLORODIBROMOMETHANE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				CHLORODIBROMOMETHANE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				CHLOROETHANE	.012	mg/kg	U	N N	R	16				CQ12ES	01:2
				CHLOROETHANE	.012	mg/kg	U	N Y	U					CQ12ES	21:3
				CHLOROFORM	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				CHLOROFORM	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				CHLOROMETHANE	.012	mg/kg	U	N N	R	16				CQ12ES	01:2
				CHLOROMETHANE	.012	mg/kg	U	N Y	U					CQ12ES	21:3
				CIS-1,2-DICHLOROETHENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				CIS-1,2-DICHLOROETHENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				CIS-1,3-DICHLOROPROPENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				CIS-1,3-DICHLOROPROPENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				DIBROMOMETHANE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				DIBROMOMETHANE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N N	R	16				CQ12ES	01:2
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N Y	U					CQ12ES	21:3
				ETHYLBENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				ETHYLBENZENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				HEXACHLOROBUTADIENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				HEXACHLOROBUTADIENE	.0061	mg/kg	U	N Y	UJ	10A				CQ12ES	21:3
				ISOPROPYLBENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				ISOPROPYLBENZENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				M-XYLENE & P-XYLENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				M-XYLENE & P-XYLENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				METHYLENE CHLORIDE	.0026	mg/kg	J B	Y Y	B	06A	15			CQ12ES	21:3
				METHYLENE CHLORIDE	.0037	mg/kg	J B	Y N	R	16				CQ12ES	01:2
				N-BUTYLBENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				N-BUTYLBENZENE	.0061	mg/kg	U	N Y	UJ	10A				CQ12ES	21:3
				N-PROPYLBENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				N-PROPYLBENZENE	.0061	mg/kg	U	N Y	UJ	10A				CQ12ES	21:3
				NAPHTHALENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				NAPHTHALENE	.0061	mg/kg	U	N Y	UJ	04B	10A			CQ12ES	21:3
				O-XYLENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				O-XYLENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0006	SW8260	SW5030	N 0 1	P-ISOPROPYLTOLUENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				P-ISOPROPYLTOLUENE	.0061	mg/kg	U	N Y	UJ	10A				CQ12ES	21:3
				SEC-BUTYLBENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				SEC-BUTYLBENZENE	.0061	mg/kg	U	N Y	UJ	10A				CQ12ES	21:3
				STYRENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				STYRENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				TERT-BUTYLBENZENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				TERT-BUTYLBENZENE	.0061	mg/kg	U	N Y	UJ	10A				CQ12ES	21:3
				TETRACHLOROETHENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				TETRACHLOROETHENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				TOLUENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				TOLUENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				TRANS-1,2-DICHLOROETHENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				TRANS-1,2-DICHLOROETHENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				TRANS-1,3-DICHLOROPROPENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				TRANS-1,3-DICHLOROPROPENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				TRICHLOROETHENE	.0061	mg/kg	U	N N	R	16				CQ12ES	01:2
				TRICHLOROETHENE	.0061	mg/kg	U	N Y	U					CQ12ES	21:3
				TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N N	R	16				CQ12ES	01:2
				TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N Y	U					CQ12ES	21:3
				VINYL CHLORIDE	.012	mg/kg	U	N N	R	16				CQ12ES	01:2
				VINYL CHLORIDE	.012	mg/kg	U	N Y	U					CQ12ES	21:3
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				1,2-DICHLOROBENZENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				1,3-DICHLOROBENZENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				1,4-DICHLOROBENZENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				2,2'-OXYBIS(1-CHLOROPROPANE)	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				2,4,5-TRICHLOROPHENOL	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				2,4,6-TRICHLOROPHENOL	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				2,4-DICHLOROPHENOL	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				2,4-DIMETHYLPHENOL	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				2,4-DINITROPHENOL	2	mg/kg	U	N Y	U					CQ12ES	18:5
				2,4-DINITROTOLUENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				2,6-DINITROTOLUENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				2-CHLORONAPHTHALENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				2-CHLOROPHENOL	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				2-METHYLNAPHTHALENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				2-METHYLPHENOL	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				2-NITROANILINE	2	mg/kg	U	N Y	U					CQ12ES	18:5
				2-NITROPHENOL	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				3,3'-DICHLOROBENZIDINE	2	mg/kg	U	N Y	U					CQ12ES	18:5
				3-NITROANILINE	2	mg/kg	U	N Y	U					CQ12ES	18:5
				4,6-DINITRO-2-METHYLPHENOL	2	mg/kg	U	N Y	U					CQ12ES	18:5

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KU0006	SW8270	SW3550	N 0 1	4-BROMOPHENYL PHENYL ETHER	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				4-CHLORO-3-METHYLPHENOL	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				4-CHLOROANILINE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				4-CHLOROPHENYL PHENYL ETHER	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				4-METHYLPHENOL	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				4-NITROANILINE	2	mg/kg	U	N Y	U					CQ12ES	18:5
				4-NITROPHENOL	2	mg/kg	U	N Y	U					CQ12ES	18:5
				ACENAPHTHENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				ACENAPHTHYLENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				ANTHRACENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				BENZ(A)ANTHRACENE	.039	mg/kg	J	Y Y	J	15				CQ12ES	18:5
				BENZO(A)PYRENE	.065	mg/kg	J	Y Y	J	15				CQ12ES	18:5
				BENZO(B)FLUORANTHENE	.053	mg/kg	J	Y Y	J	15	17			CQ12ES	18:5
				BENZO(GHI)PERYLENE	.066	mg/kg	J	Y Y	J	15				CQ12ES	18:5
				BENZO(K)FLUORANTHENE	.058	mg/kg	J	Y Y	J	15				CQ12ES	18:5
				BIS(2-CHLOROETHOXY)METHANE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				BIS(2-CHLOROETHYL) ETHER	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				BIS(2-ETHYLHEXYL) PHTHALATE	.079	mg/kg	J B	Y Y	B	06A	15			CQ12ES	18:5
				BUTYL BENZYL PHTHALATE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				CARBAZOLE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				CHRYSENE	.044	mg/kg	J	Y Y	J	15				CQ12ES	18:5
				DI-N-BUTYL PHTHALATE	.059	mg/kg	J B	Y Y	B	06A	15			CQ12ES	18:5
				DI-N-OCTYL PHTHALATE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				DIBENZ(A,H)ANTHRACENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				DIBENZOFURAN	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				DIETHYL PHTHALATE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				DIMETHYL PHTHALATE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				FLUORANTHENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				FLUORENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				HEXACHLOROBENZENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				HEXACHLOROBUTADIENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				HEXACHLOROCYCLOPENTADIENE	2	mg/kg	U	N Y	UJ	04B				CQ12ES	18:5
				HEXACHLOROETHANE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				INDENO(1,2,3-CD)PYRENE	.058	mg/kg	J	Y Y	J	15				CQ12ES	18:5
				ISOPHORONE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				N-NITROSODI-N-PROPYLAMINE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				N-NITROSODIPHENYLAMINE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				NAPHTHALENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				NITROBENZENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				PENTACHLOROPHENOL	2	mg/kg	U	N Y	U					CQ12ES	18:5
				PHENANTHRENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				PHENOL	.4	mg/kg	U	N Y	U					CQ12ES	18:5
				PYRENE	.4	mg/kg	U	N Y	U					CQ12ES	18:5

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0008	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQ12GS	00:0
	SW6010	SW3050	N	0	1	ALUMINUM	14800	mg/kg		Y	Y	P						CQ12GS	15:1
						ANTIMONY	7.4	mg/kg	U	N	Y	U	U					CQ12GS	15:1
						BARIUM	83.6	mg/kg		Y	Y	P						CQ12GS	15:1
						BERYLLIUM	1.4	mg/kg		Y	Y	P						CQ12GS	15:1
						CADMIUM	0.62	mg/kg	U	N	Y	U	U					CQ12GS	15:1
						CALCIUM	14400	mg/kg		Y	Y	P						CQ12GS	15:1
						CHROMIUM	26.0	mg/kg		Y	Y	P						CQ12GS	15:1
						COBALT	6.2	mg/kg	U	N	Y	U	U					CQ12GS	15:1
						COPPER	18.8	mg/kg		Y	Y	P						CQ12GS	15:1
						IRON	34700	mg/kg		Y	Y	P						CQ12GS	15:1
						MAGNESIUM	3350	mg/kg		Y	Y	P						CQ12GS	15:1
						MANGANESE	257	mg/kg		Y	Y	P						CQ12GS	15:1
						NICKEL	7.4	mg/kg		Y	Y	P						CQ12GS	15:1
						POTASSIUM	992	mg/kg		Y	Y	P						CQ12GS	15:1
						SILVER	2.2	mg/kg		Y	Y	P						CQ12GS	15:1
						SODIUM	123	mg/kg	B	Y	Y	P	J	15				CQ12GS	15:1
						VANADIUM	18.0	mg/kg		Y	Y	P						CQ12GS	15:1
						ZINC	32.2	mg/kg		Y	Y	P						CQ12GS	15:1
	SW6010	SW3050	N	1	1	ARSENIC	5.3	mg/kg		Y	Y	P						CQ12GS	21:0
						LEAD	14.9	mg/kg		Y	Y	P						CQ12GS	21:0
						SELENIUM	1.7	mg/kg		Y	Y	P						CQ12GS	21:0
						THALLIUM	1.2	mg/kg	U	N	Y	U	U					CQ12GS	21:0
	SW7471	TOTAL	N	0	1	MERCURY	0.057	mg/kg		Y	Y	P						CQ12GS	17:2
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
						1,1,1,2-TETRACHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
						1,1,1-TRICHLOROETHANE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
						1,1,1-TRICHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
						1,1,2,2-TETRACHLOROETHANE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
						1,1,2,2-TETRACHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
						1,1,2-TRICHLOROETHANE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
						1,1,2-TRICHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
						1,1-DICHLOROETHANE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
						1,1-DICHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
						1,1-DICHLOROETHENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
						1,1-DICHLOROETHENE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
						1,1-DICHLOROPROPENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
						1,1-DICHLOROPROPENE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
						1,2,3-TRICHLOROBENZENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
						1,2,3-TRICHLOROBENZENE	.0062	mg/kg	U	N	Y	U	UJ	04B	10A			CQ12GS	22:2
						1,2,3-TRICHLOROPROPANE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
						1,2,3-TRICHLOROPROPANE	.0062	mg/kg	U	N	Y	U	UJ	10A				CQ12GS	22:2
						1,2,4-TRICHLOROBENZENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0008	SW8260	SW5030	N 0 1	1,2,4-TRICHLOROBENZENE	.0062	mg/kg	U	N Y U	UJ	04B	10A			CQ12GS	22:2
				1,2,4-TRIMETHYLBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				1,2,4-TRIMETHYLBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12GS	22:2
				1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N N U	R	16				CQ12GS	01:4
				1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N Y U	R	04A	05A	10A		CQ12GS	22:2
				1,2-DIBROMOETHANE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				1,2-DIBROMOETHANE	.0062	mg/kg	U	N Y U	U					CQ12GS	22:2
				1,2-DICHLOROBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				1,2-DICHLOROBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12GS	22:2
				1,2-DICHLOROETHANE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				1,2-DICHLOROETHANE	.0062	mg/kg	U	N Y U	U					CQ12GS	22:2
				1,2-DICHLOROPROPANE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				1,2-DICHLOROPROPANE	.0062	mg/kg	U	N Y U	U					CQ12GS	22:2
				1,3,5-TRIMETHYLBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				1,3,5-TRIMETHYLBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12GS	22:2
				1,3-DICHLOROBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				1,3-DICHLOROBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12GS	22:2
				1,3-DICHLOROPROPANE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				1,3-DICHLOROPROPANE	.0062	mg/kg	U	N Y U	U					CQ12GS	22:2
				1,4-DICHLOROBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				1,4-DICHLOROBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12GS	22:2
				2,2-DICHLOROPROPANE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				2,2-DICHLOROPROPANE	.0062	mg/kg	U	N Y U	U					CQ12GS	22:2
				2-BUTANONE	.025	mg/kg	U	N N U	R	16				CQ12GS	01:4
				2-BUTANONE	.025	mg/kg	U	N Y U	R	04A	05A			CQ12GS	22:2
				2-CHLOROTOLUENE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				2-CHLOROTOLUENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12GS	22:2
				2-HEXANONE	.025	mg/kg	U	N N U	R	16				CQ12GS	01:4
				2-HEXANONE	.025	mg/kg	U	N Y U	U					CQ12GS	22:2
				4-CHLOROTOLUENE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				4-CHLOROTOLUENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12GS	22:2
				4-METHYL-2-PENTANONE	.025	mg/kg	U	N N U	R	16				CQ12GS	01:4
				4-METHYL-2-PENTANONE	.025	mg/kg	U	N Y U	U					CQ12GS	22:2
				ACETONE	.13	mg/kg	B	Y Y P	J	04A	04B	05A		CQ12GS	22:2
				ACETONE	.82	mg/kg	B E	Y N P	R	16				CQ12GS	01:4
				BENZENE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				BENZENE	.0062	mg/kg	U	N Y U	U					CQ12GS	22:2
				BROMOBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				BROMOBENZENE	.0062	mg/kg	U	N Y U	U					CQ12GS	22:2
				BROMOCHLOROMETHANE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				BROMOCHLOROMETHANE	.0062	mg/kg	U	N Y U	U					CQ12GS	22:2
				BROMODICHLOROMETHANE	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4
				BROMODICHLOROMETHANE	.0062	mg/kg	U	N Y U	U					CQ12GS	22:2
				BROMOFORM	.0062	mg/kg	U	N N U	R	16				CQ12GS	01:4

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0008	SW8260	SW5030	N 0 1	BROMOFORM	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				BROMOMETHANE	.002	mg/kg	J B	Y	N	F	R	16				CQ12GS	01:4
				BROMOMETHANE	.0022	mg/kg	J B	Y	Y	F	B	04B	06A	15		CQ12GS	22:2
				CARBON DISULFIDE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				CARBON DISULFIDE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				CARBON TETRACHLORIDE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				CARBON TETRACHLORIDE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				CHLOROBENZENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				CHLOROBENZENE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				CHLORODIBROMOMETHANE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				CHLORODIBROMOMETHANE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				CHLOROETHANE	.012	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				CHLOROETHANE	.012	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				CHLOROFORM	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				CHLOROFORM	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				CHLOROMETHANE	.012	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				CHLOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				CIS-1,2-DICHLOROETHENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				CIS-1,2-DICHLOROETHENE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				CIS-1,3-DICHLOROPROPENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				CIS-1,3-DICHLOROPROPENE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				DIBROMOMETHANE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				DIBROMOMETHANE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				ETHYLBENZENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				ETHYLBENZENE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				HEXACHLOROBUTADIENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				HEXACHLOROBUTADIENE	.0062	mg/kg	U	N	Y	U	UJ	10A				CQ12GS	22:2
				ISOPROPYLBENZENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				ISOPROPYLBENZENE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				M-XYLENE & P-XYLENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				M-XYLENE & P-XYLENE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				METHYLENE CHLORIDE	.0034	mg/kg	J B	Y	Y	F	B	06A	15			CQ12GS	22:2
				METHYLENE CHLORIDE	.004	mg/kg	J B	Y	N	F	R	16				CQ12GS	01:4
				N-BUTYLBENZENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				N-BUTYLBENZENE	.0062	mg/kg	U	N	Y	U	UJ	10A				CQ12GS	22:2
				N-PROPYLBENZENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				N-PROPYLBENZENE	.0062	mg/kg	U	N	Y	U	UJ	10A				CQ12GS	22:2
				NAPHTHALENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				NAPHTHALENE	.0062	mg/kg	U	N	Y	U	UJ	04B	10A			CQ12GS	22:2
				O-XYLENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4
				O-XYLENE	.0062	mg/kg	U	N	Y	U	U					CQ12GS	22:2
				P-ISOPROPYLTOLUENE	.0062	mg/kg	U	N	N	U	R	16				CQ12GS	01:4

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1 2 3 4	Lab Sample:	Anal Tim
KU0008	SW8260	SW5030	N 0 1	P-ISOPROPYLTOLUENE	.0062	mg/kg	U	N Y U	UJ	10A	CQ12GS	22:2
				SEC-BUTYLBENZENE	.0062	mg/kg	U	N N U	R	16	CQ12GS	01:4
				SEC-BUTYLBENZENE	.0062	mg/kg	U	N Y U	UJ	10A	CQ12GS	22:2
				STYRENE	.0062	mg/kg	U	N N U	R	16	CQ12GS	01:4
				STYRENE	.0062	mg/kg	U	N Y U	U		CQ12GS	22:2
				TERT-BUTYLBENZENE	.0062	mg/kg	U	N N U	R	16	CQ12GS	01:4
				TERT-BUTYLBENZENE	.0062	mg/kg	U	N Y U	UJ	10A	CQ12GS	22:2
				TETRACHLOROETHENE	.0062	mg/kg	U	N N U	R	16	CQ12GS	01:4
				TETRACHLOROETHENE	.0062	mg/kg	U	N Y U	U		CQ12GS	22:2
				TOLUENE	.0062	mg/kg	U	N N U	R	16	CQ12GS	01:4
				TOLUENE	.0062	mg/kg	U	N Y U	U		CQ12GS	22:2
				TRANS-1,2-DICHLOROETHENE	.0062	mg/kg	U	N N U	R	16	CQ12GS	01:4
				TRANS-1,2-DICHLOROETHENE	.0062	mg/kg	U	N Y U	U		CQ12GS	22:2
				TRANS-1,3-DICHLOROPROPENE	.0062	mg/kg	U	N N U	R	16	CQ12GS	01:4
				TRANS-1,3-DICHLOROPROPENE	.0062	mg/kg	U	N Y U	U		CQ12GS	22:2
				TRICHLOROETHENE	.0062	mg/kg	U	N N U	R	16	CQ12GS	01:4
				TRICHLOROETHENE	.0062	mg/kg	U	N Y U	U		CQ12GS	22:2
				TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N N U	R	16	CQ12GS	01:4
				TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N Y U	U		CQ12GS	22:2
				VINYL CHLORIDE	.012	mg/kg	U	N N U	R	16	CQ12GS	01:4
				VINYL CHLORIDE	.012	mg/kg	U	N Y U	U		CQ12GS	22:2
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				1,2-DICHLOROBENZENE	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				1,3-DICHLOROBENZENE	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				1,4-DICHLOROBENZENE	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				2,2'-OXYBIS(1-CHLOROPROPANE)	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				2,4,5-TRICHLOROPHENOL	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				2,4,6-TRICHLOROPHENOL	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				2,4-DICHLOROPHENOL	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				2,4-DIMETHYLPHENOL	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				2,4-DINITROPHENOL	2	mg/kg	U	N Y U	U		CQ12GS	20:5
				2,4-DINITROTOLUENE	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				2,6-DINITROTOLUENE	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				2-CHLORONAPHTHALENE	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				2-CHLOROPHENOL	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				2-METHYLNAPHTHALENE	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				2-METHYLPHENOL	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				2-NITROANILINE	2	mg/kg	U	N Y U	U		CQ12GS	20:5
				2-NITROPHENOL	.41	mg/kg	U	N Y U	U		CQ12GS	20:5
				3,3'-DICHLOROBENZIDINE	2	mg/kg	U	N Y U	U		CQ12GS	20:5
				3-NITROANILINE	2	mg/kg	U	N Y U	U		CQ12GS	20:5
				4,6-DINITRO-2-METHYLPHENOL	2	mg/kg	U	N Y U	U		CQ12GS	20:5
				4-BROMOPHENYL PHENYL ETHER	.41	mg/kg	U	N Y U	U		CQ12GS	20:5

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0008	SW8270	SW3550	N 0 1	4-CHLORO-3-METHYLPHENOL	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				4-CHLOROANILINE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				4-CHLOROPHENYL PHENYL ETHER	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				4-METHYLPHENOL	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				4-NITROANILINE	2	mg/kg	U	N Y U	U					CQ12GS	20:5
				4-NITROPHENOL	2	mg/kg	U	N Y U	U					CQ12GS	20:5
				ACENAPHTHENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				ACENAPHTHYLENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				ANTHRACENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				BENZ(A)ANTHRACENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				BENZO(A)PYRENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				BENZO(B)FLUORANTHENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				BENZO(GHI)PERYLENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				BENZO(K)FLUORANTHENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				BIS(2-CHLOROETHOXY)METHANE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				BIS(2-CHLOROETHYL) ETHER	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				BIS(2-ETHYLHEXYL) PHTHALATE	.082	mg/kg	J B	Y Y F	B	06A	15			CQ12GS	20:5
				BUTYL BENZYL PHTHALATE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				CARBAZOLE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				CHRYSENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				DI-N-BUTYL PHTHALATE	.067	mg/kg	J B	Y Y F	B	06A	15			CQ12GS	20:5
				DI-N-OCTYL PHTHALATE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				DIBENZ(A,H)ANTHRACENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				DIBENZOFURAN	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				DIETHYL PHTHALATE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				DIMETHYL PHTHALATE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				FLUORANTHENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				FLUORENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				HEXACHLOROBENZENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				HEXACHLOROBUTADIENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				HEXACHLOROCYCLOPENTADIENE	2	mg/kg	U	N Y U	UJ	04B				CQ12GS	20:5
				HEXACHLOROETHANE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				INDENO(1,2,3-CD)PYRENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				ISOPHORONE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				N-NITROSODI-N-PROPYLAMINE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				N-NITROSODIPHENYLAMINE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				NAPHTHALENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				NITROBENZENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				PENTACHLOROPHENOL	2	mg/kg	U	N Y U	U					CQ12GS	20:5
				PHENANTHRENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				PHENOL	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
				PYRENE	.41	mg/kg	U	N Y U	U					CQ12GS	20:5
KU0009	D2216	NONE	N 0 1	PERCENT MOISTURE				Y Y P						CQ12HS	00:0

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0009	SW6010	SW3050	N	0	1	ALUMINUM	10100	mg/kg		Y	Y	P						CQ12HS	15:2
						ANTIMONY	7.4	mg/kg	U	N	Y	U	U					CQ12HS	15:2
						BARIUM	38.1	mg/kg		Y	Y	P						CQ12HS	15:2
						BERYLLIUM	0.73	mg/kg		Y	Y	P						CQ12HS	15:2
						CADMIUM	0.62	mg/kg	U	N	Y	U	U					CQ12HS	15:2
						CALCIUM	4220	mg/kg		Y	Y	P						CQ12HS	15:2
						CHROMIUM	15.4	mg/kg		Y	Y	P						CQ12HS	15:2
						COBALT	6.2	mg/kg	U	N	Y	U	U					CQ12HS	15:2
						COPPER	29.0	mg/kg		Y	Y	P						CQ12HS	15:2
						IRON	28200	mg/kg		Y	Y	P						CQ12HS	15:2
						MAGNESIUM	3250	mg/kg		Y	Y	P						CQ12HS	15:2
						MANGANESE	129	mg/kg		Y	Y	P						CQ12HS	15:2
						NICKEL	14.9	mg/kg		Y	Y	P						CQ12HS	15:2
						POTASSIUM	316	mg/kg	B	Y	Y	P	J	15				CQ12HS	15:2
						SILVER	1.8	mg/kg		Y	Y	P						CQ12HS	15:2
						SODIUM	43.4	mg/kg	B	Y	Y	P	J	15				CQ12HS	15:2
						VANADIUM	8.1	mg/kg		Y	Y	P						CQ12HS	15:2
						ZINC	71.3	mg/kg		Y	Y	P						CQ12HS	15:2
	SW6010	SW3050	N	1	1	ARSENIC	8.3	mg/kg		Y	Y	P						CQ12HS	21:1
						LEAD	14.2	mg/kg		Y	Y	P						CQ12HS	21:1
						SELENIUM	1.4	mg/kg		Y	Y	P						CQ12HS	21:1
						THALLIUM	1.2	mg/kg	U	N	Y	U	U					CQ12HS	21:1
	SW7471	TOTAL	N	0	1	MERCURY	0.034	mg/kg	B	Y	Y	P	J	15				CQ12HS	17:2
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0062	mg/kg	U	N	N	U	R	16				CQ12HS	02:0
						1,1,1,2-TETRACHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQ12HS	22:0
						1,1,1-TRICHLOROETHANE	.0062	mg/kg	U	N	N	U	R	16				CQ12HS	02:0
						1,1,1-TRICHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQ12HS	22:0
						1,1,2,2-TETRACHLOROETHANE	.0062	mg/kg	U	N	N	U	R	16				CQ12HS	02:0
						1,1,2,2-TETRACHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQ12HS	22:0
						1,1,2-TRICHLOROETHANE	.0062	mg/kg	U	N	N	U	R	16				CQ12HS	02:0
						1,1,2-TRICHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQ12HS	22:0
						1,1-DICHLOROETHANE	.0062	mg/kg	U	N	N	U	R	16				CQ12HS	02:0
						1,1-DICHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQ12HS	22:0
						1,1-DICHLOROETHENE	.0062	mg/kg	U	N	N	U	R	16				CQ12HS	02:0
						1,1-DICHLOROETHENE	.0062	mg/kg	U	N	Y	U	U					CQ12HS	22:0
						1,1-DICHLOROPROPENE	.0062	mg/kg	U	N	N	U	R	16				CQ12HS	02:0
						1,1-DICHLOROPROPENE	.0062	mg/kg	U	N	Y	U	U					CQ12HS	22:0
						1,2,3-TRICHLOROBENZENE	.0062	mg/kg	U	N	N	U	R	16				CQ12HS	02:0
						1,2,3-TRICHLOROBENZENE	.0062	mg/kg	U	N	Y	U	UJ	04B	10A			CQ12HS	22:0
						1,2,3-TRICHLOROPROPANE	.0062	mg/kg	U	N	N	U	R	16				CQ12HS	02:0
						1,2,3-TRICHLOROPROPANE	.0062	mg/kg	U	N	Y	U	UJ	10A				CQ12HS	22:0
						1,2,4-TRICHLOROBENZENE	.0062	mg/kg	U	N	N	U	R	16				CQ12HS	02:0
						1,2,4-TRICHLOROBENZENE	.0062	mg/kg	U	N	Y	U	UJ	04B	10A			CQ12HS	22:0

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0009	SW8260	SW5030	N 0 1	1,2,4-TRIMETHYLBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				1,2,4-TRIMETHYLBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12HS	22:0
				1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N N U	R	16				CQ12HS	02:0
				1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N Y U	R	04A	05A	10A		CQ12HS	22:0
				1,2-DIBROMOETHANE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				1,2-DIBROMOETHANE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				1,2-DICHLOROBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				1,2-DICHLOROBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12HS	22:0
				1,2-DICHLOROETHANE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				1,2-DICHLOROETHANE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				1,2-DICHLOROPROPANE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				1,2-DICHLOROPROPANE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				1,3,5-TRIMETHYLBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				1,3,5-TRIMETHYLBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12HS	22:0
				1,3-DICHLOROBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				1,3-DICHLOROBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12HS	22:0
				1,3-DICHLOROPROPANE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				1,3-DICHLOROPROPANE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				1,4-DICHLOROBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				1,4-DICHLOROBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12HS	22:0
				2,2-DICHLOROPROPANE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				2,2-DICHLOROPROPANE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				2-BUTANONE	.025	mg/kg	U	N N U	R	16				CQ12HS	02:0
				2-BUTANONE	.025	mg/kg	U	N Y U	R	04A	05A			CQ12HS	22:0
				2-CHLOROTOLUENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				2-CHLOROTOLUENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12HS	22:0
				2-HEXANONE	.025	mg/kg	U	N N U	R	16				CQ12HS	02:0
				2-HEXANONE	.025	mg/kg	U	N Y U	U					CQ12HS	22:0
				4-CHLOROTOLUENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				4-CHLOROTOLUENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12HS	22:0
				4-METHYL-2-PENTANONE	.025	mg/kg	U	N N U	R	16				CQ12HS	02:0
				4-METHYL-2-PENTANONE	.025	mg/kg	U	N Y U	U					CQ12HS	22:0
				ACETONE	.017	mg/kg	J B	Y Y F	B	04A	04B	05A	06A	CQ12HS	22:0
				ACETONE	.028	mg/kg	B	Y N F	R	16				CQ12HS	02:0
				BENZENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				BENZENE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				BROMOBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				BROMOBENZENE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				BROMOCHLOROMETHANE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				BROMOCHLOROMETHANE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				BROMODICHLOROMETHANE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				BROMODICHLOROMETHANE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				BROMOFORM	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				BROMOFORM	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0009	SW8260	SW5030	N 0 1	BROMOMETHANE	.0019	mg/kg	J B	Y N F	R	16				CQ12HS	02:0
				BROMOMETHANE	.0019	mg/kg	J B	Y Y F	B	04B	06A	15		CQ12HS	22:0
				CARBON DISULFIDE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				CARBON DISULFIDE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				CARBON TETRACHLORIDE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				CARBON TETRACHLORIDE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				CHLOROBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				CHLOROBENZENE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				CHLORODIBROMOMETHANE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				CHLORODIBROMOMETHANE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				CHLOROETHANE	.012	mg/kg	U	N N U	R	16				CQ12HS	02:0
				CHLOROETHANE	.012	mg/kg	U	N Y U	U					CQ12HS	22:0
				CHLOROFORM	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				CHLOROFORM	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				CHLOROMETHANE	.012	mg/kg	U	N N U	R	16				CQ12HS	02:0
				CHLOROMETHANE	.012	mg/kg	U	N Y U	U					CQ12HS	22:0
				CIS-1,2-DICHLOROETHENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				CIS-1,2-DICHLOROETHENE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				CIS-1,3-DICHLOROPROPENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				CIS-1,3-DICHLOROPROPENE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				DIBROMOMETHANE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				DIBROMOMETHANE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N N U	R	16				CQ12HS	02:0
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N Y U	U					CQ12HS	22:0
				ETHYLBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				ETHYLBENZENE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				HEXACHLOROBUTADIENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				HEXACHLOROBUTADIENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12HS	22:0
				ISOPROPYLBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				ISOPROPYLBENZENE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				M-XYLENE & P-XYLENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				M-XYLENE & P-XYLENE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				METHYLENE CHLORIDE	.0029	mg/kg	J B	Y Y F	B	06A	15			CQ12HS	22:0
				METHYLENE CHLORIDE	.0043	mg/kg	J B	Y N F	R	16				CQ12HS	02:0
				N-BUTYLBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				N-BUTYLBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12HS	22:0
				N-PROPYLBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				N-PROPYLBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12HS	22:0
				NAPHTHALENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				NAPHTHALENE	.0062	mg/kg	U	N Y U	UJ	04B	10A			CQ12HS	22:0
				O-XYLENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				O-XYLENE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				P-ISOPROPYLTOLUENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				P-ISOPROPYLTOLUENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12HS	22:0

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0009	SW8260	SW5030	N 0 1	SEC-BUTYLBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				SEC-BUTYLBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12HS	22:0
				STYRENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				STYRENE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				TERT-BUTYLBENZENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				TERT-BUTYLBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQ12HS	22:0
				TETRACHLOROETHENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				TETRACHLOROETHENE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				TOLUENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				TOLUENE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				TRANS-1,2-DICHLOROETHENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				TRANS-1,2-DICHLOROETHENE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				TRANS-1,3-DICHLOROPROPENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				TRANS-1,3-DICHLOROPROPENE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				TRICHLOROETHENE	.0062	mg/kg	U	N N U	R	16				CQ12HS	02:0
				TRICHLOROETHENE	.0062	mg/kg	U	N Y U	U					CQ12HS	22:0
				TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N N U	R	16				CQ12HS	02:0
				TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N Y U	U					CQ12HS	22:0
				VINYL CHLORIDE	.012	mg/kg	U	N N U	R	16				CQ12HS	02:0
				VINYL CHLORIDE	.012	mg/kg	U	N Y U	U					CQ12HS	22:0
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				1,2-DICHLOROBENZENE	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				1,3-DICHLOROBENZENE	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				1,4-DICHLOROBENZENE	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				2,2'-OXYBIS(1-CHLOROPROPANE)	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				2,4,5-TRICHLOROPHENOL	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				2,4,6-TRICHLOROPHENOL	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				2,4-DICHLOROPHENOL	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				2,4-DIMETHYLPHENOL	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				2,4-DINITROPHENOL	2	mg/kg	U	N Y U	U					CQ12HS	20:1
				2,4-DINITROTOLUENE	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				2,6-DINITROTOLUENE	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				2-CHLORONAPHTHALENE	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				2-CHLOROPHENOL	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				2-METHYLNAPHTHALENE	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				2-METHYLPHENOL	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				2-NITROANILINE	2	mg/kg	U	N Y U	U					CQ12HS	20:1
				2-NITROPHENOL	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				3,3'-DICHLOROBENZIDINE	2	mg/kg	U	N Y U	U					CQ12HS	20:1
				3-NITROANILINE	2	mg/kg	U	N Y U	U					CQ12HS	20:1
				4,6-DINITRO-2-METHYLPHENOL	2	mg/kg	U	N Y U	U					CQ12HS	20:1
				4-BROMOPHENYL PHENYL ETHER	.41	mg/kg	U	N Y U	U					CQ12HS	20:1
				4-CHLORO-3-METHYLPHENOL	.41	mg/kg	U	N Y U	U					CQ12HS	20:1

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1 2 3 4	Lab Sample:	Anal Tim
KU0009	SW8270	SW3550	N 0 1	4-CHLOROANILINE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				4-CHLOROPHENYL PHENYL ETHER	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				4-METHYLPHENOL	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				4-NITROANILINE	2	mg/kg	U	N Y U	U		CQ12HS	20:1
				4-NITROPHENOL	2	mg/kg	U	N Y U	U		CQ12HS	20:1
				ACENAPHTHENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				ACENAPHTHYLENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				ANTHRACENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				BENZ(A)ANTHRACENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				BENZO(A)PYRENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				BENZO(B)FLUORANTHENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				BENZO(GHI)PERYLENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				BENZO(K)FLUORANTHENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				BIS(2-CHLOROETHOXY)METHANE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				BIS(2-CHLOROETHYL) ETHER	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				BIS(2-ETHYLHEXYL) PHTHALATE	.1	mg/kg	J B	Y Y F	B	06A 15	CQ12HS	20:1
				BUTYL BENZYL PHTHALATE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				CARBAZOLE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				CHRYSENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				DI-N-BUTYL PHTHALATE	.049	mg/kg	J B	Y Y F	B	06A 15	CQ12HS	20:1
				DI-N-OCTYL PHTHALATE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				DIBENZ(A,H)ANTHRACENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				DIBENZOFURAN	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				DIETHYL PHTHALATE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				DIMETHYL PHTHALATE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				FLUORANTHENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				FLUORENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				HEXACHLOROBENZENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				HEXACHLOROBUTADIENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				HEXACHLOROCYCLOPENTADIENE	2	mg/kg	U	N Y U	UJ	04B	CQ12HS	20:1
				HEXACHLOROETHANE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				INDENO(1,2,3-CD)PYRENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				ISOPHORONE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				N-NITROSODI-N-PROPYLAMINE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				N-NITROSODIPHENYLAMINE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				NAPHTHALENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				NITROBENZENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				PENTACHLOROPHENOL	2	mg/kg	U	N Y U	U		CQ12HS	20:1
				PHENANTHRENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				PHENOL	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
				PYRENE	.41	mg/kg	U	N Y U	U		CQ12HS	20:1
KU0010	D2216	NONE	N 0 1	PERCENT MOISTURE				Y Y P			CQ12LS	00:0
	SW6010	SW3050	N 0 1	ALUMINUM	7380	mg/kg		Y Y P			CQ12LS	15:2

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0010	SW6010	SW3050	N	0	1	ANTIMONY	7.0	mg/kg	U	N	Y	U	U					CQ12LS	15:2
						BARIUM	63.2	mg/kg		Y	Y	P						CQ12LS	15:2
						BERYLLIUM	1.1	mg/kg		Y	Y	P						CQ12LS	15:2
						CADMIUM	0.58	mg/kg	U	N	Y	U	U					CQ12LS	15:2
						CALCIUM	629	mg/kg		Y	Y	P						CQ12LS	15:2
						CHROMIUM	16.2	mg/kg		Y	Y	P						CQ12LS	15:2
						COBALT	5.8	mg/kg	U	N	Y	U	U					CQ12LS	15:2
						COPPER	14.2	mg/kg		Y	Y	P						CQ12LS	15:2
						IRON	41600	mg/kg		Y	Y	P						CQ12LS	15:2
						MAGNESIUM	1030	mg/kg		Y	Y	P						CQ12LS	15:2
						MANGANESE	744	mg/kg		Y	Y	P						CQ12LS	15:2
						NICKEL	14.3	mg/kg		Y	Y	P						CQ12LS	15:2
						POTASSIUM	275	mg/kg	B	Y	Y	P	J	15				CQ12LS	15:2
						SILVER	2.6	mg/kg		Y	Y	P						CQ12LS	15:2
						SODIUM	54.4	mg/kg	B	Y	Y	P	J	15				CQ12LS	15:2
						VANADIUM	5.8	mg/kg	U	N	Y	U	U					CQ12LS	15:2
						ZINC	35.2	mg/kg		Y	Y	P						CQ12LS	15:2
	SW6010	SW3050	N	1	1	ARSENIC	6.3	mg/kg		Y	Y	P						CQ12LS	21:2
						LEAD	11.9	mg/kg		Y	Y	P						CQ12LS	21:2
						SELENIUM	1.7	mg/kg		Y	Y	P						CQ12LS	21:2
						THALLIUM	1.2	mg/kg	U	N	Y	U	U					CQ12LS	21:2
	SW7471	TOTAL	N	0	1	MERCURY	0.032	mg/kg	B	Y	Y	P	J	15				CQ12LS	17:3
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						1,1,1,2-TETRACHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ12LS	22:5
						1,1,1-TRICHLOROETHANE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						1,1,1-TRICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ12LS	22:5
						1,1,2,2-TETRACHLOROETHANE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						1,1,2,2-TETRACHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ12LS	22:5
						1,1,2-TRICHLOROETHANE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						1,1,2-TRICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ12LS	22:5
						1,1-DICHLOROETHANE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						1,1-DICHLOROETHANE	.0058	mg/kg	U	N	Y	U	U					CQ12LS	22:5
						1,1-DICHLOROETHENE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						1,1-DICHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CQ12LS	22:5
						1,1-DICHLOROPROPENE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						1,1-DICHLOROPROPENE	.0058	mg/kg	U	N	Y	U	U					CQ12LS	22:5
						1,2,3-TRICHLOROBENZENE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						1,2,3-TRICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	UJ	04B	10A			CQ12LS	22:5
						1,2,3-TRICHLOROPROPANE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						1,2,3-TRICHLOROPROPANE	.0058	mg/kg	U	N	Y	U	UJ	10A				CQ12LS	22:5
						1,2,4-TRICHLOROBENZENE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						1,2,4-TRICHLOROBENZENE	.0058	mg/kg	U	N	Y	U	UJ	04B	10A			CQ12LS	22:5
						1,2,4-TRIMETHYLBENZENE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0010	SW8260	SW5030	N 0 1	1,2,4-TRIMETHYLBENZENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ12LS	22:5
				1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N N U	R	16				CQ12LS	02:3
				1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N Y U	R	04A	05A	10A		CQ12LS	22:5
				1,2-DIBROMOETHANE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				1,2-DIBROMOETHANE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				1,2-DICHLOROBENZENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				1,2-DICHLOROBENZENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ12LS	22:5
				1,2-DICHLOROETHANE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				1,2-DICHLOROETHANE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				1,2-DICHLOROPROPANE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				1,2-DICHLOROPROPANE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				1,3,5-TRIMETHYLBENZENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				1,3,5-TRIMETHYLBENZENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ12LS	22:5
				1,3-DICHLOROBENZENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				1,3-DICHLOROBENZENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ12LS	22:5
				1,3-DICHLOROPROPANE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				1,3-DICHLOROPROPANE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				1,4-DICHLOROBENZENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				1,4-DICHLOROBENZENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ12LS	22:5
				2,2-DICHLOROPROPANE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				2,2-DICHLOROPROPANE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				2-BUTANONE	.023	mg/kg	U	N N U	R	16				CQ12LS	02:3
				2-BUTANONE	.023	mg/kg	U	N Y U	R	04A	05A			CQ12LS	22:5
				2-CHLOROTOLUENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				2-CHLOROTOLUENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ12LS	22:5
				2-HEXANONE	.023	mg/kg	U	N N U	R	16				CQ12LS	02:3
				2-HEXANONE	.023	mg/kg	U	N Y U	U					CQ12LS	22:5
				4-CHLOROTOLUENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				4-CHLOROTOLUENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ12LS	22:5
				4-METHYL-2-PENTANONE	.023	mg/kg	U	N N U	R	16				CQ12LS	02:3
				4-METHYL-2-PENTANONE	.023	mg/kg	U	N Y U	U					CQ12LS	22:5
				ACETONE	1.6	mg/kg	B E	Y N F	R	16				CQ12LS	22:5
				ACETONE	1.7	mg/kg	B E	Y N F	R	16				CQ12LS	02:3
				BENZENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				BENZENE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				BROMOBENZENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				BROMOBENZENE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				BROMOCHLOROMETHANE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				BROMOCHLOROMETHANE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				BROMODICHLOROMETHANE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				BROMODICHLOROMETHANE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				BROMOFORM	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				BROMOFORM	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				BROMOMETHANE	.0015	mg/kg	J B	Y N F	R	16				CQ12LS	02:3

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0010	SW8260	SW5030	N 0 1	BROMOMETHANE	.0018	mg/kg	J B	Y Y F	B	04B	06A	15		CQ12LS	22:5
				CARBON DISULFIDE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				CARBON DISULFIDE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				CARBON TETRACHLORIDE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				CARBON TETRACHLORIDE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				CHLOROBENZENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				CHLOROBENZENE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				CHLORODIBROMOMETHANE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				CHLORODIBROMOMETHANE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				CHLOROETHANE	.012	mg/kg	U	N N U	R	16				CQ12LS	02:3
				CHLOROETHANE	.012	mg/kg	U	N Y U	U					CQ12LS	22:5
				CHLOROFORM	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				CHLOROFORM	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				CHLOROMETHANE	.012	mg/kg	U	N N U	R	16				CQ12LS	02:3
				CHLOROMETHANE	.012	mg/kg	U	N Y U	U					CQ12LS	22:5
				CIS-1,2-DICHLOROETHENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				CIS-1,2-DICHLOROETHENE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				CIS-1,3-DICHLOROPROPENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				CIS-1,3-DICHLOROPROPENE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				DIBROMOMETHANE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				DIBROMOMETHANE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N N U	R	16				CQ12LS	02:3
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N Y U	U					CQ12LS	22:5
				ETHYLBENZENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				ETHYLBENZENE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				HEXACHLOROBUTADIENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				HEXACHLOROBUTADIENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ12LS	22:5
				ISOPROPYLBENZENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				ISOPROPYLBENZENE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				M-XYLENE & P-XYLENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				M-XYLENE & P-XYLENE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				METHYLENE CHLORIDE	.0032	mg/kg	J B	Y Y F	B	06A	15			CQ12LS	22:5
				METHYLENE CHLORIDE	.0037	mg/kg	J B	Y N F	R	16				CQ12LS	02:3
				N-BUTYLBENZENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				N-BUTYLBENZENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ12LS	22:5
				N-PROPYLBENZENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				N-PROPYLBENZENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ12LS	22:5
				NAPHTHALENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				NAPHTHALENE	.0058	mg/kg	U	N Y U	UJ	04B	10A			CQ12LS	22:5
				O-XYLENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				O-XYLENE	.0058	mg/kg	U	N Y U	U					CQ12LS	22:5
				P-ISOPROPYLTOLUENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3
				P-ISOPROPYLTOLUENE	.0058	mg/kg	U	N Y U	UJ	10A				CQ12LS	22:5
				SEC-BUTYLBENZENE	.0058	mg/kg	U	N N U	R	16				CQ12LS	02:3

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0010	SW8260	SW5030	N	0	1	SEC-BUTYLBENZENE	.0058	mg/kg	U	N	Y	U	UJ	10A				CQ12LS	22:5
						STYRENE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						STYRENE	.0058	mg/kg	U	N	Y	U	U					CQ12LS	22:5
						TERT-BUTYLBENZENE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						TERT-BUTYLBENZENE	.0058	mg/kg	U	N	Y	U	UJ	10A				CQ12LS	22:5
						TETRACHLOROETHENE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						TETRACHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CQ12LS	22:5
						TOLUENE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						TOLUENE	.0058	mg/kg	U	N	Y	U	U					CQ12LS	22:5
						TRANS-1,2-DICHLOROETHENE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						TRANS-1,2-DICHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CQ12LS	22:5
						TRANS-1,3-DICHLOROPROPENE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						TRANS-1,3-DICHLOROPROPENE	.0058	mg/kg	U	N	Y	U	U					CQ12LS	22:5
						TRICHLOROETHENE	.0058	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						TRICHLOROETHENE	.0058	mg/kg	U	N	Y	U	U					CQ12LS	22:5
						TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N	Y	U	U					CQ12LS	22:5
						VINYL CHLORIDE	.012	mg/kg	U	N	N	U	R	16				CQ12LS	02:3
						VINYL CHLORIDE	.012	mg/kg	U	N	Y	U	U					CQ12LS	22:5
	SW8260	SW5030	N	1	1	ACETONE	1.8	mg/kg	D B	Y	Y	F	B	04A	05A	06A		CQ12LS	21:2
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						1,2-DICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						1,3-DICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						1,4-DICHLOROBENZENE	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						2,2'-OXYBIS(1-CHLOROPROPANE)	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						2,4,5-TRICHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						2,4,6-TRICHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						2,4-DICHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						2,4-DIMETHYLPHENOL	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						2,4-DINITROPHENOL	1.9	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						2,4-DINITROTOLUENE	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						2,6-DINITROTOLUENE	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						2-CHLORONAPHTHALENE	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						2-CHLOROPHENOL	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						2-METHYLNAPHTHALENE	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						2-METHYLPHENOL	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						2-NITROANILINE	1.9	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						2-NITROPHENOL	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						3,3'-DICHLOROBENZIDINE	1.9	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						3-NITROANILINE	1.9	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						4,6-DINITRO-2-METHYLPHENOL	1.9	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						4-BROMOPHENYL PHENYL ETHER	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2
						4-CHLORO-3-METHYLPHENOL	.39	mg/kg	U	N	Y	U	U					CQ12LS	23:2

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1 2 3 4	Lab Sample:	Anal Tim
KU0010	SW8270	SW3550	N 0 1	4-CHLOROANILINE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				4-CHLOROPHENYL PHENYL ETHER	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				4-METHYLPHENOL	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				4-NITROANILINE	1.9	mg/kg	U	N Y U	U		CQ12LS	23:2
				4-NITROPHENOL	1.9	mg/kg	U	N Y U	U		CQ12LS	23:2
				ACENAPHTHENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				ACENAPHTHYLENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				ANTHRACENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				BENZ(A)ANTHRACENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				BENZO(A)PYRENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				BENZO(B)FLUORANTHENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				BENZO(GHI)PERYLENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				BENZO(K)FLUORANTHENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				BIS(2-CHLOROETHOXY)METHANE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				BIS(2-CHLOROETHYL) ETHER	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				BIS(2-ETHYLHEXYL) PHTHALATE	.2	mg/kg	J B	Y Y F	B	06A 15	CQ12LS	23:2
				BUTYL BENZYL PHTHALATE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				CARBAZOLE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				CHRYSENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				DI-N-BUTYL PHTHALATE	.049	mg/kg	J B	Y Y F	B	06A 15	CQ12LS	23:2
				DI-N-OCTYL PHTHALATE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				DIBENZ(A,H)ANTHRACENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				DIBENZOFURAN	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				DIETHYL PHTHALATE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				DIMETHYL PHTHALATE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				FLUORANTHENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				FLUORENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				HEXACHLOROBENZENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				HEXACHLOROBUTADIENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				HEXACHLOROCYCLOPENTADIENE	1.9	mg/kg	U	N Y U	UJ	04B 05B	CQ12LS	23:2
				HEXACHLOROETHANE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				INDENO(1,2,3-CD)PYRENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				ISOPHORONE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				N-NITROSODI-N-PROPYLAMINE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				N-NITROSODIPHENYLAMINE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				NAPHTHALENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				NITROBENZENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				PENTACHLOROPHENOL	1.9	mg/kg	U	N Y U	U		CQ12LS	23:2
				PHENANTHRENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				PHENOL	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
				PYRENE	.39	mg/kg	U	N Y U	U		CQ12LS	23:2
KU0011	D2216	NONE	N 0 1	PERCENT MOISTURE				Y Y P			CRGLHS	00:0
	SW6010	SW3050	N 0 1	ALUMINUM	7160	mg/kg		Y Y P			CRGLHS	16:0

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0011	SW6010	SW3050	N 0 1	ANTIMONY	7.8	mg/kg	U	N Y U	U					CRGLHS	16:0
				ARSENIC	19.8	mg/kg		Y Y P						CRGLHS	16:0
				BARIUM	46.5	mg/kg		Y Y P						CRGLHS	16:0
				BERYLLIUM	0.75	mg/kg		Y Y P						CRGLHS	16:0
				CADMIUM	0.65	mg/kg	U	N Y U	U					CRGLHS	16:0
				CALCIUM	2280	mg/kg		Y Y P						CRGLHS	16:0
				CHROMIUM	20.5	mg/kg		Y Y P						CRGLHS	16:0
				COBALT	4.7	mg/kg	B	Y Y P	J	15				CRGLHS	16:0
				COPPER	30.9	mg/kg		Y Y P						CRGLHS	16:0
				IRON	36800	mg/kg		Y Y P						CRGLHS	16:0
				LEAD	38.5	mg/kg		Y Y P						CRGLHS	16:0
				MAGNESIUM	1340	mg/kg		Y Y P						CRGLHS	16:0
				MANGANESE	238	mg/kg		Y Y P						CRGLHS	16:0
				NICKEL	12.5	mg/kg		Y Y P						CRGLHS	16:0
				POTASSIUM	335	mg/kg	B	Y Y P	J	15				CRGLHS	16:0
				SELENIUM	1.5	mg/kg		Y Y P						CRGLHS	16:0
				SILVER	1.3	mg/kg	U	N Y U	U					CRGLHS	16:0
				SODIUM	121	mg/kg	B	Y Y F	B	06C	15			CRGLHS	16:0
				THALLIUM	1.3	mg/kg	U	N Y U	U					CRGLHS	16:0
				VANADIUM	31.7	mg/kg		Y Y P						CRGLHS	16:0
				ZINC	83.5	mg/kg		Y Y P						CRGLHS	16:0
	SW7471	TOTAL	N 0 1	MERCURY	0.066	mg/kg		Y Y F	B	06A				CRGLHS	19:4
	SW8260	SW5030	N 0 1	1,1,1,2-TETRACHLOROETHANE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				1,1,1-TRICHLOROETHANE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				1,1,2,2-TETRACHLOROETHANE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				1,1,2-TRICHLOROETHANE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				1,1-DICHLOROETHANE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				1,1-DICHLOROETHENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				1,1-DICHLOROPROPENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				1,2,3-TRICHLOROBENZENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				1,2,3-TRICHLOROPROPANE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				1,2,4-TRICHLOROBENZENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				1,2,4-TRIMETHYLBENZENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				1,2-DIBROMO-3-CHLOROPROPANE	.013	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				1,2-DIBROMOETHANE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				1,2-DICHLOROBENZENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				1,2-DICHLOROETHANE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				1,2-DICHLOROPROPANE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				1,3,5-TRIMETHYLBENZENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				1,3-DICHLOROBENZENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				1,3-DICHLOROPROPANE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				1,4-DICHLOROBENZENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				2,2-DICHLOROPROPANE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0011	SW8260	SW5030	N 0 1	2-BUTANONE	.026	mg/kg	U	N Y U	R	04A	05A			CRGLHS	00:2
				2-CHLOROTOLUENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				2-HEXANONE	.026	mg/kg	U	N Y U	U					CRGLHS	00:2
				4-CHLOROTOLUENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				4-METHYL-2-PENTANONE	.026	mg/kg	U	N Y U	U					CRGLHS	00:2
				ACETONE	.0089	mg/kg	J B	Y Y F	B	04A	05A	06A		CRGLHS	00:2
				BENZENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				BROMOBENZENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				BROMOCHLOROMETHANE	.0065	mg/kg	U	N Y U	R	04A	05A			CRGLHS	00:2
				BROMODICHLOROMETHANE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				BROMOFORM	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				BROMOMETHANE	.013	mg/kg	U	N Y U	U					CRGLHS	00:2
				CARBON DISULFIDE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				CARBON TETRACHLORIDE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				CHLOROBENZENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				CHLORODIBROMOMETHANE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				CHLOROETHANE	.013	mg/kg	U	N Y U	U					CRGLHS	00:2
				CHLOROFORM	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				CHLOROMETHANE	.013	mg/kg	U	N Y U	U					CRGLHS	00:2
				CIS-1,2-DICHLOROETHENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				CIS-1,3-DICHLOROPROPENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				DIBROMOMETHANE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				DICHLORODIFLUOROMETHANE	.013	mg/kg	U	N Y U	U					CRGLHS	00:2
				ETHYLBENZENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				HEXACHLOROBUTADIENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				ISOPROPYLBENZENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				M-XYLENE & P-XYLENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				METHYLENE CHLORIDE	.0046	mg/kg	J B	Y Y F	B	04B	06A	15		CRGLHS	00:2
				N-BUTYLBENZENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				N-PROPYLBENZENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				NAPHTHALENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				O-XYLENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				P-ISOPROPYLTOLUENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				SEC-BUTYLBENZENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				STYRENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				TERT-BUTYLBENZENE	.0065	mg/kg	U	N Y U	UJ	10A				CRGLHS	00:2
				TETRACHLOROETHENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				TOLUENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				TRANS-1,2-DICHLOROETHENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				TRANS-1,3-DICHLOROPROPENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				TRICHLOROETHENE	.0065	mg/kg	U	N Y U	U					CRGLHS	00:2
				TRICHLOROFLUOROMETHANE	.013	mg/kg	U	N Y U	U					CRGLHS	00:2
				VINYL CHLORIDE	.013	mg/kg	U	N Y U	U					CRGLHS	00:2

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0011	SW8270	SW3540	N 0 1	1,2,4-TRICHLOROBENZENE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				1,2-DICHLOROBENZENE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				1,3-DICHLOROBENZENE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				1,4-DICHLOROBENZENE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				2,2'-OXYBIS(1-CHLOROPROPANE)	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				2,4,5-TRICHLOROPHENOL	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				2,4,6-TRICHLOROPHENOL	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				2,4-DICHLOROPHENOL	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				2,4-DIMETHYLPHENOL	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				2,4-DINITROPHENOL	2.1	mg/kg	U	N Y U	U					CRGLHS	03:4
				2,4-DINITROTOLUENE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				2,6-DINITROTOLUENE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				2-CHLORONAPHTHALENE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				2-CHLOROPHENOL	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				2-METHYLNAPHTHALENE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				2-METHYLPHENOL	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				2-NITROANILINE	2.1	mg/kg	U	N Y U	U					CRGLHS	03:4
				2-NITROPHENOL	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				3,3'-DICHLOROBENZIDINE	2.1	mg/kg	U	N Y U	U					CRGLHS	03:4
				3-NITROANILINE	2.1	mg/kg	U	N Y U	U					CRGLHS	03:4
				4,6-DINITRO-2-METHYLPHENOL	2.1	mg/kg	U	N Y U	U					CRGLHS	03:4
				4-BROMOPHENYL PHENYL ETHER	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				4-CHLORO-3-METHYLPHENOL	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				4-CHLOROANILINE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				4-CHLOROPHENYL PHENYL ETHER	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				4-METHYLPHENOL	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				4-NITROANILINE	2.1	mg/kg	U	N Y U	U					CRGLHS	03:4
				4-NITROPHENOL	2.1	mg/kg	U	N Y U	U					CRGLHS	03:4
				ACENAPHTHENE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				ACENAPHTHYLENE	.1	mg/kg	J	Y Y P	J	15				CRGLHS	03:4
				ANTHRACENE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				BENZ(A)ANTHRACENE	.29	mg/kg	J	Y Y P	J	15				CRGLHS	03:4
				BENZO(A)PYRENE	.55	mg/kg		Y Y P						CRGLHS	03:4
				BENZO(B)FLUORANTHENE	.71	mg/kg		Y Y P						CRGLHS	03:4
				BENZO(GHI)PERYLENE	.32	mg/kg	J	Y Y P	J	10A	15			CRGLHS	03:4
				BENZO(K)FLUORANTHENE	.34	mg/kg	J	Y Y P	J	15				CRGLHS	03:4
				BIS(2-CHLOROETHOXY)METHANE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				BIS(2-CHLOROETHYL) ETHER	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				BIS(2-ETHYLHEXYL) PHTHALATE	.23	mg/kg	J	Y Y P	J	15				CRGLHS	03:4
				BUTYL BENZYL PHTHALATE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				CARBAZOLE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				CHRYSENE	.3	mg/kg	J	Y Y P	J	15				CRGLHS	03:4
				DI-N-BUTYL PHTHALATE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4
				DI-N-OCTYL PHTHALATE	.43	mg/kg	U	N Y U	U					CRGLHS	03:4

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU0011	SW8270	SW3540	N	0	1	DIBENZ(A,H)ANTHRACENE	.075	mg/kg	J	Y	Y	P	J	10A	15			CRGLHS	03:4
						DIBENZOFURAN	.43	mg/kg	U	N	Y	U	U					CRGLHS	03:4
						DIETHYL PHTHALATE	.43	mg/kg	U	N	Y	U	U					CRGLHS	03:4
						DIMETHYL PHTHALATE	.43	mg/kg	U	N	Y	U	U					CRGLHS	03:4
						FLUORANTHENE	.33	mg/kg	J	Y	Y	P	J	15				CRGLHS	03:4
						FLUORENE	.43	mg/kg	U	N	Y	U	U					CRGLHS	03:4
						HEXACHLOROBENZENE	.43	mg/kg	U	N	Y	U	U					CRGLHS	03:4
						HEXACHLOROBUTADIENE	.43	mg/kg	U	N	Y	U	U					CRGLHS	03:4
						HEXACHLOROCYCLOPENTADIENE	.43	mg/kg	U	N	Y	U	U					CRGLHS	03:4
						HEXACHLOROETHANE	.43	mg/kg	U	N	Y	U	U					CRGLHS	03:4
						INDENO(1,2,3-CD)PYRENE	.35	mg/kg	J	Y	Y	P	J	10A	15			CRGLHS	03:4
						ISOPHORONE	.43	mg/kg	U	N	Y	U	U					CRGLHS	03:4
						N-NITROSODI-N-PROPYLAMINE	.43	mg/kg	U	N	Y	U	U					CRGLHS	03:4
						N-NITROSODIPHENYLAMINE	.43	mg/kg	U	N	Y	U	U					CRGLHS	03:4
						NAPHTHALENE	.43	mg/kg	U	N	Y	U	U					CRGLHS	03:4
						NITROBENZENE	.43	mg/kg	U	N	Y	U	U					CRGLHS	03:4
						PENTACHLOROPHENOL	2.1	mg/kg	U	N	Y	U	U					CRGLHS	03:4
						PHENANTHRENE	.095	mg/kg	J	Y	Y	P	J	15				CRGLHS	03:4
						PHENOL	.43	mg/kg	U	N	Y	U	U					CRGLHS	03:4
						PYRENE	.3	mg/kg	J	Y	Y	P	J	15				CRGLHS	03:4
KU1001	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQC28S	00:0
	SW6010	SW3050	N	0	1	ALUMINUM	6540	mg/kg		Y	Y	P						CQC28S	18:5
						ANTIMONY	7.7	mg/kg	U	N	Y	U	U					CQC28S	18:5
						ARSENIC	7.8	mg/kg		Y	Y	P						CQC28S	18:5
						BARIUM	25.9	mg/kg		Y	Y	P						CQC28S	18:5
						BERYLLIUM	0.74	mg/kg		Y	Y	P						CQC28S	18:5
						CADMIUM	0.64	mg/kg	U	N	Y	U	U					CQC28S	18:5
						CALCIUM	1170	mg/kg		Y	Y	P						CQC28S	18:5
						CHROMIUM	33.8	mg/kg		Y	Y	P						CQC28S	18:5
						COBALT	4.1	mg/kg	B	Y	Y	P	J	15				CQC28S	18:5
						COPPER	16.8	mg/kg		Y	Y	P						CQC28S	18:5
						IRON	37800	mg/kg		Y	Y	P						CQC28S	18:5
						LEAD	18.3	mg/kg		Y	Y	P						CQC28S	18:5
						MAGNESIUM	1680	mg/kg		Y	Y	P						CQC28S	18:5
						MANGANESE	332	mg/kg		Y	Y	P						CQC28S	18:5
						NICKEL	10.1	mg/kg		Y	Y	P						CQC28S	18:5
						POTASSIUM	329	mg/kg	B	Y	Y	P	J	15				CQC28S	18:5
						SELENIUM	2.2	mg/kg		Y	Y	P						CQC28S	18:5
						SILVER	1.3	mg/kg	U	N	Y	U	U					CQC28S	18:5
						SODIUM	91.0	mg/kg	B	Y	Y	F	B	06A	15			CQC28S	18:5
						THALLIUM	1.3	mg/kg	U	N	Y	U	U					CQC28S	18:5
						VANADIUM	31.9	mg/kg		Y	Y	P						CQC28S	18:5
						ZINC	77.7	mg/kg		Y	Y	P						CQC28S	18:5

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU1001	SW7471	TOTAL	N 0 1	MERCURY	0.019	mg/kg	B	Y Y P	J	15				CQC28S	09:5
	SW8260	SW5030	N 0 1	1,1,1,2-TETRACHLOROETHANE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				1,1,1-TRICHLOROETHANE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				1,1,2,2-TETRACHLOROETHANE	.0064	mg/kg	U	N Y U	UJ	10A				CQC28S	00:5
				1,1,2-TRICHLOROETHANE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				1,1-DICHLOROETHANE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				1,1-DICHLOROETHENE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				1,1-DICHLOROPROPENE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				1,2,3-TRICHLOROBENZENE	.0064	mg/kg	U	N Y U	UJ	10A				CQC28S	00:5
				1,2,3-TRICHLOROPROPANE	.0064	mg/kg	U	N Y U	UJ	10A				CQC28S	00:5
				1,2,4-TRICHLOROBENZENE	.0064	mg/kg	U	N Y U	UJ	10A				CQC28S	00:5
				1,2,4-TRIMETHYLBENZENE	.0064	mg/kg	U	N Y U	UJ	10A				CQC28S	00:5
				1,2-DIBROMO-3-CHLOROPROPANE	.013	mg/kg	U	N Y U	R	04A	05A	10A		CQC28S	00:5
				1,2-DIBROMOETHANE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				1,2-DICHLOROBENZENE	.0064	mg/kg	U	N Y U	UJ	10A				CQC28S	00:5
				1,2-DICHLOROETHANE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				1,2-DICHLOROPROPANE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				1,3,5-TRIMETHYLBENZENE	.0064	mg/kg	U	N Y U	UJ	10A				CQC28S	00:5
				1,3-DICHLOROBENZENE	.0064	mg/kg	U	N Y U	UJ	10A				CQC28S	00:5
				1,3-DICHLOROPROPANE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				1,4-DICHLOROBENZENE	.0064	mg/kg	U	N Y U	UJ	10A				CQC28S	00:5
				2,2-DICHLOROPROPANE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				2-BUTANONE	.026	mg/kg	U	N Y U	R	04A	05A			CQC28S	00:5
				2-CHLOROTOLUENE	.0064	mg/kg	U	N Y U	UJ	10A				CQC28S	00:5
				2-HEXANONE	.026	mg/kg	U	N Y U	UJ	05B				CQC28S	00:5
				4-CHLOROTOLUENE	.0064	mg/kg	U	N Y U	UJ	10A				CQC28S	00:5
				4-METHYL-2-PENTANONE	.026	mg/kg	U	N Y U	U					CQC28S	00:5
				ACETONE	.026	mg/kg	U	N Y U	R	04A	05A			CQC28S	00:5
				BENZENE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				BROMOBENZENE	.0064	mg/kg	U	N Y U	UJ	10A				CQC28S	00:5
				BROMOCHLOROMETHANE	.0064	mg/kg	U	N Y U	R	04A	05A			CQC28S	00:5
				BROMODICHLOROMETHANE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				BROMOFORM	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				BROMOMETHANE	.013	mg/kg	U	N Y U	U					CQC28S	00:5
				CARBON DISULFIDE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				CARBON TETRACHLORIDE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				CHLOROBENZENE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				CHLORODIBROMOMETHANE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				CHLOROETHANE	.013	mg/kg	U	N Y U	U					CQC28S	00:5
				CHLOROFORM	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				CHLOROMETHANE	.013	mg/kg	U	N Y U	U					CQC28S	00:5
				CIS-1,2-DICHLOROETHENE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5
				CIS-1,3-DICHLOROPROPENE	.0064	mg/kg	U	N Y U	U					CQC28S	00:5

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU1001	SW8260	SW5030	N	0	1	DIBROMOMETHANE	.0064	mg/kg	U	N	Y	U	R	04A	05A			CQC28S	00:5
						DICHLORODIFLUOROMETHANE	.013	mg/kg	U	N	Y	U	U					CQC28S	00:5
						ETHYLBENZENE	.0064	mg/kg	U	N	Y	U	U					CQC28S	00:5
						HEXACHLOROBUTADIENE	.0064	mg/kg	U	N	Y	U	UJ	10A				CQC28S	00:5
						ISOPROPYLBENZENE	.0064	mg/kg	U	N	Y	U	U					CQC28S	00:5
						M-XYLENE & P-XYLENE	.0064	mg/kg	U	N	Y	U	U					CQC28S	00:5
						METHYLENE CHLORIDE	.0031	mg/kg	J B	Y	Y	F	B	06A	15			CQC28S	00:5
						N-BUTYLBENZENE	.0064	mg/kg	U	N	Y	U	UJ	10A				CQC28S	00:5
						N-PROPYLBENZENE	.0064	mg/kg	U	N	Y	U	UJ	10A				CQC28S	00:5
						NAPHTHALENE	.0064	mg/kg	U	N	Y	U	UJ	05B	10A			CQC28S	00:5
						O-XYLENE	.0064	mg/kg	U	N	Y	U	U					CQC28S	00:5
						P-ISOPROPYLTOLUENE	.0064	mg/kg	U	N	Y	U	UJ	10A				CQC28S	00:5
						SEC-BUTYLBENZENE	.0064	mg/kg	U	N	Y	U	UJ	10A				CQC28S	00:5
						STYRENE	.0064	mg/kg	U	N	Y	U	U					CQC28S	00:5
						TERT-BUTYLBENZENE	.0064	mg/kg	U	N	Y	U	UJ	10A				CQC28S	00:5
						TETRACHLOROETHENE	.0064	mg/kg	U	N	Y	U	U					CQC28S	00:5
						TOLUENE	.0064	mg/kg	U	N	Y	U	U					CQC28S	00:5
						TRANS-1,2-DICHLOROETHENE	.0064	mg/kg	U	N	Y	U	U					CQC28S	00:5
						TRANS-1,3-DICHLOROPROPENE	.0064	mg/kg	U	N	Y	U	U					CQC28S	00:5
						TRICHLOROETHENE	.0064	mg/kg	U	N	Y	U	U					CQC28S	00:5
						TRICHLOROFLUOROMETHANE	.013	mg/kg	U	N	Y	U	U					CQC28S	00:5
						VINYL CHLORIDE	.013	mg/kg	U	N	Y	U	U					CQC28S	00:5
	SW8270	SW3550	N	0	1	1,2,4-TRICHLOROBENZENE	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						1,2-DICHLOROBENZENE	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						1,3-DICHLOROBENZENE	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						1,4-DICHLOROBENZENE	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						2,2'-OXYBIS(1-CHLOROPROPANE)	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						2,4,5-TRICHLOROPHENOL	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						2,4,6-TRICHLOROPHENOL	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						2,4-DICHLOROPHENOL	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						2,4-DIMETHYLPHENOL	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						2,4-DINITROPHENOL	2.1	mg/kg	U	N	Y	U	UJ	05B				CQC28S	05:0
						2,4-DINITROTOLUENE	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						2,6-DINITROTOLUENE	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						2-CHLORONAPHTHALENE	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						2-CHLOROPHENOL	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						2-METHYLNAPHTHALENE	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						2-METHYLPHENOL	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						2-NITROANILINE	2.1	mg/kg	U	N	Y	U	UJ	05B				CQC28S	05:0
						2-NITROPHENOL	.43	mg/kg	U	N	Y	U	U					CQC28S	05:0
						3,3'-DICHLOROBENZIDINE	2.1	mg/kg	U	N	Y	U	U					CQC28S	05:0
						3-NITROANILINE	2.1	mg/kg	U	N	Y	U	U					CQC28S	05:0
						4,6-DINITRO-2-METHYLPHENOL	2.1	mg/kg	U	N	Y	U	UJ	05B				CQC28S	05:0

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU1001	SW8270	SW3550	N 0 1	4-BROMOPHENYL PHENYL ETHER	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				4-CHLORO-3-METHYLPHENOL	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				4-CHLOROANILINE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				4-CHLOROPHENYL PHENYL ETHER	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				4-METHYLPHENOL	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				4-NITROANILINE	2.1	mg/kg	U	N Y U	U					CQC28S	05:0
				4-NITROPHENOL	2.1	mg/kg	U	N Y U	UJ	05B				CQC28S	05:0
				ACENAPHTHENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				ACENAPHTHYLENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				ANTHRACENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				BENZ(A)ANTHRACENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				BENZO(A)PYRENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				BENZO(B)FLUORANTHENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				BENZO(GHI)PERYLENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				BENZO(K)FLUORANTHENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				BIS(2-CHLOROETHOXY)METHANE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				BIS(2-CHLOROETHYL) ETHER	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				BIS(2-ETHYLHEXYL) PHTHALATE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				BUTYL BENZYL PHTHALATE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				CARBAZOLE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				CHRYSENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				DI-N-BUTYL PHTHALATE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				DI-N-OCTYL PHTHALATE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				DIBENZ(A,H)ANTHRACENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				DIBENZOFURAN	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				DIETHYL PHTHALATE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				DIMETHYL PHTHALATE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				FLUORANTHENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				FLUORENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				HEXACHLOROBENZENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				HEXACHLOROBUTADIENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				HEXACHLOROCYCLOPENTADIENE	2.1	mg/kg	U	N Y U	UJ	04B	05B			CQC28S	05:0
				HEXACHLOROETHANE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				INDENO(1,2,3-CD)PYRENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				ISOPHORONE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				N-NITROSODI-N-PROPYLAMINE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				N-NITROSODIPHENYLAMINE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				NAPHTHALENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				NITROBENZENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				PENTACHLOROPHENOL	2.1	mg/kg	U	N Y U	U					CQC28S	05:0
				PHENANTHRENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				PHENOL	.43	mg/kg	U	N Y U	U					CQC28S	05:0
				PYRENE	.43	mg/kg	U	N Y U	U					CQC28S	05:0

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU1001	SW9060	METHOD	N	0	1.0	ORGANIC CARBON, TOTAL	6890	mg/kg		Y	Y	P						3039510001SA	13:2
KU1002	D2216	NONE	N	0	1	PERCENT MOISTURE				Y	Y	P						CQM88S	00:0
	SW6010	SW3050	N	0	1	ALUMINUM	3060	mg/kg		Y	Y	P						CQM88S	13:1
						ANTIMONY	7.4	mg/kg	U	N	Y	U	U					CQM88S	13:1
						ARSENIC	2.8	mg/kg		Y	Y	P						CQM88S	13:1
						BARIUM	14.5	mg/kg	B	Y	Y	P	J	15				CQM88S	13:1
						BERYLLIUM	0.25	mg/kg	B	Y	Y	P	J	15				CQM88S	13:1
						CADMIUM	0.62	mg/kg	U	N	Y	U	U					CQM88S	13:1
						CALCIUM	11500	mg/kg		Y	Y	P						CQM88S	13:1
						CHROMIUM	8.6	mg/kg		Y	Y	P						CQM88S	13:1
						COBALT	2.3	mg/kg	B	Y	Y	P	J	15				CQM88S	13:1
						COPPER	8.9	mg/kg		Y	Y	P						CQM88S	13:1
						IRON	10000	mg/kg		Y	Y	P						CQM88S	13:1
						LEAD	9.9	mg/kg		Y	Y	P						CQM88S	13:1
						MAGNESIUM	6520	mg/kg		Y	Y	P						CQM88S	13:1
						MANGANESE	86.1	mg/kg		Y	Y	P						CQM88S	13:1
						NICKEL	4.6	mg/kg	B	Y	Y	P	J	15				CQM88S	13:1
						POTASSIUM	175	mg/kg	B	Y	Y	P	J	15				CQM88S	13:1
						SELENIUM	0.65	mg/kg		Y	Y	P						CQM88S	13:1
						SILVER	1.2	mg/kg	U	N	Y	U	U					CQM88S	13:1
						SODIUM	58.2	mg/kg	B	Y	Y	F	B	06A	15			CQM88S	13:1
						THALLIUM	1.2	mg/kg	U	N	Y	U	U					CQM88S	13:1
						VANADIUM	11.8	mg/kg		Y	Y	P						CQM88S	13:1
						ZINC	36.3	mg/kg		Y	Y	P						CQM88S	13:1
	SW7471	TOTAL	N	0	1	MERCURY	0.024	mg/kg	B	Y	Y	F	B	06A	15			CQM88S	16:4
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQM88S	22:3
						1,1,1-TRICHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQM88S	22:3
						1,1,2,2-TETRACHLOROETHANE	.0062	mg/kg	U	N	Y	U	UJ	10A				CQM88S	22:3
						1,1,2-TRICHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQM88S	22:3
						1,1-DICHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQM88S	22:3
						1,1-DICHLOROETHENE	.0062	mg/kg	U	N	Y	U	U					CQM88S	22:3
						1,1-DICHLOROPROPENE	.0062	mg/kg	U	N	Y	U	U					CQM88S	22:3
						1,2,3-TRICHLOROBENZENE	.0062	mg/kg	U	N	Y	U	UJ	10A				CQM88S	22:3
						1,2,3-TRICHLOROPROPANE	.0062	mg/kg	U	N	Y	U	UJ	10A				CQM88S	22:3
						1,2,4-TRICHLOROBENZENE	.0062	mg/kg	U	N	Y	U	UJ	10A				CQM88S	22:3
						1,2,4-TRIMETHYLBENZENE	.0062	mg/kg	U	N	Y	U	UJ	10A				CQM88S	22:3
						1,2-DIBROMO-3-CHLOROPROPANE	.012	mg/kg	U	N	Y	U	R	04A	05A	05B	10A	CQM88S	22:3
						1,2-DIBROMOETHANE	.0062	mg/kg	U	N	Y	U	U					CQM88S	22:3
						1,2-DICHLOROBENZENE	.0062	mg/kg	U	N	Y	U	UJ	10A				CQM88S	22:3
						1,2-DICHLOROETHANE	.0062	mg/kg	U	N	Y	U	U					CQM88S	22:3
						1,2-DICHLOROPROPANE	.0062	mg/kg	U	N	Y	U	U					CQM88S	22:3
						1,3,5-TRIMETHYLBENZENE	.0062	mg/kg	U	N	Y	U	UJ	10A				CQM88S	22:3
						1,3-DICHLOROBENZENE	.0062	mg/kg	U	N	Y	U	UJ	10A				CQM88S	22:3

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU1002	SW8260	SW5030	N 0 1	1,3-DICHLOROPROPANE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				1,4-DICHLOROBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQM88S	22:3
				2,2-DICHLOROPROPANE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				2-BUTANONE	.025	mg/kg	U	N Y U	R	04A	05A	05B		CQM88S	22:3
				2-CHLOROTOLUENE	.0062	mg/kg	U	N Y U	UJ	10A				CQM88S	22:3
				2-HEXANONE	.025	mg/kg	U	N Y U	R	05A	05B			CQM88S	22:3
				4-CHLOROTOLUENE	.0062	mg/kg	U	N Y U	UJ	10A				CQM88S	22:3
				4-METHYL-2-PENTANONE	.025	mg/kg	U	N Y U	UJ	05B				CQM88S	22:3
				ACETONE	.025	mg/kg	U	N Y U	R	04A	05A			CQM88S	22:3
				BENZENE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				BROMOBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQM88S	22:3
				BROMOCHLOROMETHANE	.0062	mg/kg	U	N Y U	R	04A	05A			CQM88S	22:3
				BROMODICHLOROMETHANE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				BROMOFORM	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				BROMOMETHANE	.012	mg/kg	U	N Y U	UJ	04B				CQM88S	22:3
				CARBON DISULFIDE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				CARBON TETRACHLORIDE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				CHLOROBENZENE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				CHLORODIBROMOMETHANE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				CHLOROETHANE	.012	mg/kg	U	N Y U	U					CQM88S	22:3
				CHLOROFORM	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				CHLOROMETHANE	.012	mg/kg	U	N Y U	U					CQM88S	22:3
				CIS-1,2-DICHLOROETHENE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				CIS-1,3-DICHLOROPROPENE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				DIBROMOMETHANE	.0062	mg/kg	U	N Y U	R	04A	05A			CQM88S	22:3
				DICHLORODIFLUOROMETHANE	.012	mg/kg	U	N Y U	U					CQM88S	22:3
				ETHYLBENZENE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				HEXACHLOROBUTADIENE	.0062	mg/kg	U	N Y U	UJ	10A				CQM88S	22:3
				ISOPROPYLBENZENE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				M-XYLENE & P-XYLENE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				METHYLENE CHLORIDE	.0065	mg/kg	B	Y Y F	B	04B	06A			CQM88S	22:3
				N-BUTYLBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQM88S	22:3
				N-PROPYLBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQM88S	22:3
				NAPHTHALENE	.0062	mg/kg	U	N Y U	UJ	05B	10A			CQM88S	22:3
				O-XYLENE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				P-ISOPROPYLTOLUENE	.0062	mg/kg	U	N Y U	UJ	10A				CQM88S	22:3
				SEC-BUTYLBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQM88S	22:3
				STYRENE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				TERT-BUTYLBENZENE	.0062	mg/kg	U	N Y U	UJ	10A				CQM88S	22:3
				TETRACHLOROETHENE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				TOLUENE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				TRANS-1,2-DICHLOROETHENE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				TRANS-1,3-DICHLOROPROPENE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3
				TRICHLOROETHENE	.0062	mg/kg	U	N Y U	U					CQM88S	22:3

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1 2 3 4	Lab Sample:	Anal Tim
KU1002	SW8260	SW5030	N 0 1	TRICHLOROFLUOROMETHANE	.012	mg/kg	U	N Y U	U		CQM88S	22:3
				VINYL CHLORIDE	.012	mg/kg	U	N Y U	U		CQM88S	22:3
	SW8270	SW3550	N 0 1	1,2,4-TRICHLOROBENZENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				1,2-DICHLOROBENZENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				1,3-DICHLOROBENZENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				1,4-DICHLOROBENZENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				2,2'-OXYBIS(1-CHLOROPROPANE)	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				2,4,5-TRICHLOROPHENOL	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				2,4,6-TRICHLOROPHENOL	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				2,4-DICHLOROPHENOL	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				2,4-DIMETHYLPHENOL	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				2,4-DINITROPHENOL	2	mg/kg	U	N Y U	U		CQM88S	23:4
				2,4-DINITROTOLUENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				2,6-DINITROTOLUENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				2-CHLORONAPHTHALENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				2-CHLOROPHENOL	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				2-METHYLNAPHTHALENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				2-METHYLPHENOL	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				2-NITROANILINE	2	mg/kg	U	N Y U	U		CQM88S	23:4
				2-NITROPHENOL	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				3,3'-DICHLOROBENZIDINE	2	mg/kg	U	N Y U	UJ	05B	CQM88S	23:4
				3-NITROANILINE	2	mg/kg	U	N Y U	UJ	05B	CQM88S	23:4
				4,6-DINITRO-2-METHYLPHENOL	2	mg/kg	U	N Y U	U		CQM88S	23:4
				4-BROMOPHENYL PHENYL ETHER	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				4-CHLORO-3-METHYLPHENOL	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				4-CHLOROANILINE	.41	mg/kg	U	N Y U	UJ	05B	CQM88S	23:4
				4-CHLOROPHENYL PHENYL ETHER	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				4-METHYLPHENOL	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				4-NITROANILINE	2	mg/kg	U	N Y U	UJ	05B	CQM88S	23:4
				4-NITROPHENOL	2	mg/kg	U	N Y U	U		CQM88S	23:4
				ACENAPHTHENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				ACENAPHTHYLENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				ANTHRACENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				BENZ(A)ANTHRACENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				BENZO(A)PYRENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				BENZO(B)FLUORANTHENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				BENZO(GHI)PERYLENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				BENZO(K)FLUORANTHENE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				BIS(2-CHLOROETHOXY)METHANE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				BIS(2-CHLOROETHYL) ETHER	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				BIS(2-ETHYLHEXYL) PHTHALATE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				BUTYL BENZYL PHTHALATE	.41	mg/kg	U	N Y U	U		CQM88S	23:4
				CARBAZOLE	.41	mg/kg	U	N Y U	UJ	05B	CQM88S	23:4

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU1002	SW8270	SW3550	N	0	1	CHRYSENE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						DI-N-BUTYL PHTHALATE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						DI-N-OCTYL PHTHALATE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						DIBENZ(A,H)ANTHRACENE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						DIBENZOFURAN	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						DIETHYL PHTHALATE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						DIMETHYL PHTHALATE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						FLUORANTHENE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						FLUORENE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						HEXACHLOROBENZENE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						HEXACHLOROBUTADIENE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						HEXACHLOROCYCLOPENTADIENE	2	mg/kg	U	N	Y	U	U					CQM88S	23:4
						HEXACHLOROETHANE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						INDENO(1,2,3-CD)PYRENE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						ISOPHORONE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						N-NITROSODI-N-PROPYLAMINE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						N-NITROSODIPHENYLAMINE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						NAPHTHALENE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						NITROBENZENE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						PENTACHLOROPHENOL	2	mg/kg	U	N	Y	U	U					CQM88S	23:4
						PHENANTHRENE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						PHENOL	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
						PYRENE	.41	mg/kg	U	N	Y	U	U					CQM88S	23:4
	SW9060	METHOD	N	0	1.0	ORGANIC CARBON, TOTAL	9390	mg/kg		Y	Y	P						3041600001SA	18:1
KU2001	SW6010	SW3005	N	0	1	ALUMINUM	.37	mg/L		Y	Y	P						CQC1XW	18:4
						ANTIMONY	.06	mg/L	U	N	Y	U	U					CQC1XW	18:4
						BARIUM	.029	mg/L	B	Y	Y	P	J	15				CQC1XW	18:4
						BERYLLIUM	.005	mg/L	U	N	Y	U	U					CQC1XW	18:4
						CADMIUM	.005	mg/L	U	N	Y	U	U					CQC1XW	18:4
						CALCIUM	48	mg/L		Y	Y	P						CQC1XW	18:4
						CHROMIUM	.01	mg/L	U	N	Y	U	U					CQC1XW	18:4
						COBALT	.05	mg/L	U	N	Y	U	U					CQC1XW	18:4
						COPPER	.025	mg/L	U	N	Y	U	U					CQC1XW	18:4
						IRON	.41	mg/L		Y	Y	P						CQC1XW	18:4
						MAGNESIUM	13	mg/L		Y	Y	P						CQC1XW	18:4
						MANGANESE	.0413	mg/L		Y	Y	P						CQC1XW	18:4
						NICKEL	.04	mg/L	U	N	Y	U	U					CQC1XW	18:4
						POTASSIUM	1.7	mg/L	B	Y	Y	P	J	12	15			CQC1XW	18:4
						SILVER	.01	mg/L	U	N	Y	U	U					CQC1XW	18:4
						SODIUM	3.26	mg/L	B	Y	Y	P	J	15				CQC1XW	18:4
						VANADIUM	.05	mg/L	U	N	Y	U	U					CQC1XW	18:4
						ZINC	.0688	mg/L		Y	Y	P	J	15	17			CQC1XW	18:4
	SW6010	TOTREC	N	0	1	ARSENIC	.01	mg/L	U	N	Y	U	U					CQC1XW	18:4

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU2001	SW6010	TOTREC	N	0	1	LEAD	.003	mg/L	U	N	Y	U	U					CQC1XW	18:4
						SELENIUM	.005	mg/L	U	N	Y	U	U					CQC1XW	18:4
						THALLIUM	.01	mg/L	U	N	Y	U	U					CQC1XW	18:4
	SW7470	TOTAL	N	0	1	MERCURY	.000046	mg/L	B	Y	Y	P	J	15				CQC1XW	18:2
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,1,1-TRICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,1,2,2-TETRACHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,1,2-TRICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,1-DICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,1-DICHLOROETHENE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,1-DICHLOROPROPENE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,2,3-TRICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,2,3-TRICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,2,4-TRICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,2,4-TRIMETHYLBENZENE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,2-DIBROMO-3-CHLOROPROPANE	.002	mg/L	U	N	Y	U	R	04A				CQC1XW	19:5
						1,2-DIBROMOETHANE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,2-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,2-DICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,2-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,3,5-TRIMETHYLBENZENE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,3-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,3-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						1,4-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						2,2-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						2-BUTANONE	.005	mg/L	U	N	Y	U	R	04A	05A			CQC1XW	19:5
						2-CHLOROTOLUENE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						2-HEXANONE	.005	mg/L	U	N	Y	U	U					CQC1XW	19:5
						4-CHLOROTOLUENE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						4-METHYL-2-PENTANONE	.005	mg/L	U	N	Y	U	U					CQC1XW	19:5
						ACETONE	.0055	mg/L	J	Y	Y	P	J	04A	05A	05B		CQC1XW	19:5
						BENZENE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						BROMOBENZENE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						BROMOCHLOROMETHANE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						BROMODICHLOROMETHANE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						BROMOFORM	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						BROMOMETHANE	.002	mg/L	U	N	Y	U	U					CQC1XW	19:5
						CARBON DISULFIDE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						CARBON TETRACHLORIDE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						CHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						CHLORODIBROMOMETHANE	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5
						CHLOROETHANE	.002	mg/L	U	N	Y	U	U					CQC1XW	19:5
						CHLOROFORM	.001	mg/L	U	N	Y	U	U					CQC1XW	19:5

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU2001	SW8260	SW5030	N 0 1	CHLOROMETHANE	.002	mg/L	U	N Y U	U					CQC1XW	19:5
				CIS-1,2-DICHLOROETHENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				CIS-1,3-DICHLOROPROPENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				DIBROMOMETHANE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				DICHLORODIFLUOROMETHANE	.002	mg/L	U	N Y U	U					CQC1XW	19:5
				ETHYLBENZENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				HEXACHLOROBUTADIENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				ISOPROPYLBENZENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				M-XYLENE & P-XYLENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				METHYLENE CHLORIDE	.0008	mg/L	J B	Y Y F	B	04B	06A	06C	15	CQC1XW	19:5
				N-BUTYLBENZENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				N-PROPYLBENZENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				NAPHTHALENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				O-XYLENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				P-ISOPROPYLTOLUENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				SEC-BUTYLBENZENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				STYRENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				TERT-BUTYLBENZENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				TETRACHLOROETHENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				TOLUENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				TRANS-1,2-DICHLOROETHENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				TRANS-1,3-DICHLOROPROPENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				TRICHLOROETHENE	.001	mg/L	U	N Y U	U					CQC1XW	19:5
				TRICHLOROFLUOROMETHANE	.002	mg/L	U	N Y U	U					CQC1XW	19:5
				VINYL CHLORIDE	.002	mg/L	U	N Y U	U					CQC1XW	19:5
	SW8270	SW3520	N 0 1	1,2,4-TRICHLOROBENZENE	.01	mg/L	U	N Y U	U					CQC1XW	20:4
				1,2-DICHLOROBENZENE	.01	mg/L	U	N Y U	U					CQC1XW	20:4
				1,3-DICHLOROBENZENE	.01	mg/L	U	N Y U	U					CQC1XW	20:4
				1,4-DICHLOROBENZENE	.01	mg/L	U	N Y U	U					CQC1XW	20:4
				2,2'-OXYBIS(1-CHLOROPROPANE)	.01	mg/L	U	N Y U	U					CQC1XW	20:4
				2,4,5-TRICHLOROPHENOL	.01	mg/L	U	N Y U	U					CQC1XW	20:4
				2,4,6-TRICHLOROPHENOL	.01	mg/L	U	N Y U	U					CQC1XW	20:4
				2,4-DICHLOROPHENOL	.01	mg/L	U	N Y U	U					CQC1XW	20:4
				2,4-DIMETHYLPHENOL	.01	mg/L	U	N Y U	U					CQC1XW	20:4
				2,4-DINITROPHENOL	.05	mg/L	U	N Y U	U					CQC1XW	20:4
				2,4-DINITROTOLUENE	.01	mg/L	U	N Y U	U					CQC1XW	20:4
				2,6-DINITROTOLUENE	.01	mg/L	U	N Y U	U					CQC1XW	20:4
				2-CHLORONAPHTHALENE	.01	mg/L	U	N Y U	U					CQC1XW	20:4
				2-CHLOROPHENOL	.01	mg/L	U	N Y U	U					CQC1XW	20:4
				2-METHYLNAPHTHALENE	.01	mg/L	U	N Y U	U					CQC1XW	20:4
				2-METHYLPHENOL	.01	mg/L	U	N Y U	U					CQC1XW	20:4
				2-NITROANILINE	.05	mg/L	U	N Y U	U					CQC1XW	20:4
				2-NITROPHENOL	.01	mg/L	U	N Y U	U					CQC1XW	20:4

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1 2 3 4	Lab Sample:	Anal Tim
KU2001	SW8270	SW3520	N 0 1	3,3'-DICHLOROBENZIDINE	.05	mg/L	U	N Y U	U		CQC1XW	20:4
				3-NITROANILINE	.05	mg/L	U	N Y U	U		CQC1XW	20:4
				4,6-DINITRO-2-METHYLPHENOL	.05	mg/L	U	N Y U	U		CQC1XW	20:4
				4-BROMOPHENYL PHENYL ETHER	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				4-CHLORO-3-METHYLPHENOL	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				4-CHLOROANILINE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				4-CHLOROPHENYL PHENYL ETHER	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				4-METHYLPHENOL	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				4-NITROANILINE	.05	mg/L	U	N Y U	U		CQC1XW	20:4
				4-NITROPHENOL	.05	mg/L	U	N Y U	UJ	05B	CQC1XW	20:4
				ACENAPHTHENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				ACENAPHTHYLENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				ANTHRACENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				BENZ(A)ANTHRACENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				BENZO(A)PYRENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				BENZO(B)FLUORANTHENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				BENZO(GHI)PERYLENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				BENZO(K)FLUORANTHENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				BIS(2-CHLOROETHOXY)METHANE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				BIS(2-CHLOROETHYL) ETHER	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				BIS(2-ETHYLHEXYL) PHTHALATE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				BUTYL BENZYL PHTHALATE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				CARBAZOLE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				CHRYSENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				DI-N-BUTYL PHTHALATE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				DI-N-OCTYL PHTHALATE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				DIBENZ(A,H)ANTHRACENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				DIBENZOFURAN	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				DIETHYL PHTHALATE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				DIMETHYL PHTHALATE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				FLUORANTHENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				FLUORENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				HEXACHLOROBENZENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				HEXACHLOROBUTADIENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				HEXACHLOROCYCLOPENTADIENE	.05	mg/L	U	N Y U	UJ	05B	CQC1XW	20:4
				HEXACHLOROETHANE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				INDENO(1,2,3-CD)PYRENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				ISOPHORONE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				N-NITROSODI-N-PROPYLAMINE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				N-NITROSODIPHENYLAMINE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				NAPHTHALENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				NITROBENZENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4
				PENTACHLOROPHENOL	.05	mg/L	U	N Y U	U		CQC1XW	20:4
				PHENANTHRENE	.01	mg/L	U	N Y U	U		CQC1XW	20:4

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU2001	SW8270	SW3520	N	0	1	PHENOL	.01	mg/L	U	N	Y	U	U					CQC1XW	20:4
						PYRENE	.01	mg/L	U	N	Y	U	U					CQC1XW	20:4
KU2002	SW6010	SW3005	N	0	1	ALUMINUM	.29	mg/L		Y	Y							CQC22W	18:4
						ANTIMONY	.06	mg/L	U	N	Y		U					CQC22W	18:4
						BARIUM	.0286	mg/L	B	Y	Y		J	15				CQC22W	18:4
						BERYLLIUM	.005	mg/L	U	N	Y		U					CQC22W	18:4
						CADMIUM	.005	mg/L	U	N	Y		U					CQC22W	18:4
						CALCIUM	48.6	mg/L		Y	Y							CQC22W	18:4
						CHROMIUM	.01	mg/L	U	N	Y		U					CQC22W	18:4
						COBALT	.05	mg/L	U	N	Y		U					CQC22W	18:4
						COPPER	.025	mg/L	U	N	Y		U					CQC22W	18:4
						IRON	.306	mg/L		Y	Y							CQC22W	18:4
						MAGNESIUM	13.3	mg/L		Y	Y							CQC22W	18:4
						MANGANESE	.0374	mg/L		Y	Y							CQC22W	18:4
						NICKEL	.04	mg/L	U	N	Y		U					CQC22W	18:4
						POTASSIUM	1.81	mg/L	B	Y	Y		J	12	15			CQC22W	18:4
						SILVER	.01	mg/L	U	N	Y		U					CQC22W	18:4
						SODIUM	3.31	mg/L	B	Y	Y		J	15				CQC22W	18:4
						VANADIUM	.05	mg/L	U	N	Y		U					CQC22W	18:4
						ZINC	.0231	mg/L		Y	Y		J	15	17			CQC22W	18:4
	SW6010	TOTREC	N	0	1	ARSENIC	.01	mg/L	U	N	Y		U					CQC22W	18:4
						LEAD	.003	mg/L	U	N	Y		U					CQC22W	18:4
						SELENIUM	.005	mg/L	U	N	Y		U					CQC22W	18:4
						THALLIUM	.01	mg/L	U	N	Y		U					CQC22W	18:4
	SW7470	TOTAL	N	0	1	MERCURY	.0002	mg/L	U	N	Y		U					CQC22W	18:2
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,1,1-TRICHLOROETHANE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,1,2,2-TETRACHLOROETHANE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,1,2-TRICHLOROETHANE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,1-DICHLOROETHANE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,1-DICHLOROETHENE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,1-DICHLOROPROPENE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,2,3-TRICHLOROBENZENE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,2,3-TRICHLOROPROPANE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,2,4-TRICHLOROBENZENE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,2,4-TRIMETHYLBENZENE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,2-DIBROMO-3-CHLOROPROPANE	.002	mg/L	U	N	Y		R	04A				CQC22W	20:2
						1,2-DIBROMOETHANE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,2-DICHLOROBENZENE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,2-DICHLOROETHANE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,2-DICHLOROPROPANE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,3,5-TRIMETHYLBENZENE	.001	mg/L	U	N	Y		U					CQC22W	20:2
						1,3-DICHLOROBENZENE	.001	mg/L	U	N	Y		U					CQC22W	20:2

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU2002	SW8260	SW5030	N 0 1	1,3-DICHLOROPROPANE	.001	mg/L	U	N Y	U					CQC22W	20:2
				1,4-DICHLOROBENZENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				2,2-DICHLOROPROPANE	.001	mg/L	U	N Y	U					CQC22W	20:2
				2-BUTANONE	.005	mg/L	U	N Y	R	04A	05A			CQC22W	20:2
				2-CHLOROTOLUENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				2-HEXANONE	.005	mg/L	U	N Y	U					CQC22W	20:2
				4-CHLOROTOLUENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				4-METHYL-2-PENTANONE	.005	mg/L	U	N Y	U					CQC22W	20:2
				ACETONE	.0059	mg/L	J	Y Y	J	04A	05A	05B	15	CQC22W	20:2
				BENZENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				BROMOBENZENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				BROMOCHLOROMETHANE	.001	mg/L	U	N Y	U					CQC22W	20:2
				BROMODICHLOROMETHANE	.001	mg/L	U	N Y	U					CQC22W	20:2
				BROMOFORM	.001	mg/L	U	N Y	U					CQC22W	20:2
				BROMOMETHANE	.002	mg/L	U	N Y	U					CQC22W	20:2
				CARBON DISULFIDE	.001	mg/L	U	N Y	U					CQC22W	20:2
				CARBON TETRACHLORIDE	.001	mg/L	U	N Y	U					CQC22W	20:2
				CHLOROBENZENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				CHLORODIBROMOMETHANE	.001	mg/L	U	N Y	U					CQC22W	20:2
				CHLOROETHANE	.002	mg/L	U	N Y	U					CQC22W	20:2
				CHLOROFORM	.001	mg/L	U	N Y	U					CQC22W	20:2
				CHLOROMETHANE	.002	mg/L	U	N Y	U					CQC22W	20:2
				CIS-1,2-DICHLOROETHENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				CIS-1,3-DICHLOROPROPENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				DIBROMOMETHANE	.001	mg/L	U	N Y	U					CQC22W	20:2
				DICHLORODIFLUOROMETHANE	.002	mg/L	U	N Y	U					CQC22W	20:2
				ETHYLBENZENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				HEXACHLOROBUTADIENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				ISOPROPYLBENZENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				M-XYLENE & P-XYLENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				METHYLENE CHLORIDE	.00082	mg/L	J B	Y Y	B	04B	06A	06C	15	CQC22W	20:2
				N-BUTYLBENZENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				N-PROPYLBENZENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				NAPHTHALENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				O-XYLENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				P-ISOPROPYLTOLUENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				SEC-BUTYLBENZENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				STYRENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				TERT-BUTYLBENZENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				TETRACHLOROETHENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				TOLUENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				TRANS-1,2-DICHLOROETHENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				TRANS-1,3-DICHLOROPROPENE	.001	mg/L	U	N Y	U					CQC22W	20:2
				TRICHLOROETHENE	.001	mg/L	U	N Y	U					CQC22W	20:2

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1 2 3 4	Lab Sample:	Anal Tim
KU2002	SW8260	SW5030	N 0 1	TRICHLOROFLUOROMETHANE	.002	mg/L	U	N Y	U		CQC22W	20:2
				VINYL CHLORIDE	.002	mg/L	U	N Y	U		CQC22W	20:2
	SW8270	SW3520	N 0 1	1,2,4-TRICHLOROBENZENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				1,2-DICHLOROBENZENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				1,3-DICHLOROBENZENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				1,4-DICHLOROBENZENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				2,2'-OXYBIS(1-CHLOROPROPANE)	.01	mg/L	U	N Y	U		CQC22W	20:4
				2,4,5-TRICHLOROPHENOL	.01	mg/L	U	N Y	U		CQC22W	20:4
				2,4,6-TRICHLOROPHENOL	.01	mg/L	U	N Y	U		CQC22W	20:4
				2,4-DICHLOROPHENOL	.01	mg/L	U	N Y	U		CQC22W	20:4
				2,4-DIMETHYLPHENOL	.01	mg/L	U	N Y	U		CQC22W	20:4
				2,4-DINITROPHENOL	.05	mg/L	U	N Y	U		CQC22W	20:4
				2,4-DINITROTOLUENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				2,6-DINITROTOLUENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				2-CHLORONAPHTHALENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				2-CHLOROPHENOL	.01	mg/L	U	N Y	U		CQC22W	20:4
				2-METHYLNAPHTHALENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				2-METHYLPHENOL	.01	mg/L	U	N Y	U		CQC22W	20:4
				2-NITROANILINE	.05	mg/L	U	N Y	U		CQC22W	20:4
				2-NITROPHENOL	.01	mg/L	U	N Y	U		CQC22W	20:4
				3,3'-DICHLOROBENZIDINE	.05	mg/L	U	N Y	U		CQC22W	20:4
				3-NITROANILINE	.05	mg/L	U	N Y	U		CQC22W	20:4
				4,6-DINITRO-2-METHYLPHENOL	.05	mg/L	U	N Y	U		CQC22W	20:4
				4-BROMOPHENYL PHENYL ETHER	.01	mg/L	U	N Y	U		CQC22W	20:4
				4-CHLORO-3-METHYLPHENOL	.01	mg/L	U	N Y	U		CQC22W	20:4
				4-CHLOROANILINE	.01	mg/L	U	N Y	U		CQC22W	20:4
				4-CHLOROPHENYL PHENYL ETHER	.01	mg/L	U	N Y	U		CQC22W	20:4
				4-METHYLPHENOL	.01	mg/L	U	N Y	U		CQC22W	20:4
				4-NITROANILINE	.05	mg/L	U	N Y	U		CQC22W	20:4
				4-NITROPHENOL	.05	mg/L	U	N Y	UJ	05B	CQC22W	20:4
				ACENAPHTHENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				ACENAPHTHYLENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				ANTHRACENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				BENZ(A)ANTHRACENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				BENZO(A)PYRENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				BENZO(B)FLUORANTHENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				BENZO(GHI)PERYLENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				BENZO(K)FLUORANTHENE	.01	mg/L	U	N Y	U		CQC22W	20:4
				BIS(2-CHLOROETHOXY)METHANE	.01	mg/L	U	N Y	U		CQC22W	20:4
				BIS(2-CHLOROETHYL) ETHER	.01	mg/L	U	N Y	U		CQC22W	20:4
				BIS(2-ETHYLHEXYL) PHTHALATE	.0079	mg/L	J	Y Y	J	15	CQC22W	20:4
				BUTYL BENZYL PHTHALATE	.01	mg/L	U	N Y	U		CQC22W	20:4
				CARBAZOLE	.01	mg/L	U	N Y	U		CQC22W	20:4

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU2002	SW8270	SW3520	N 0 1	CHRYSENE	.01	mg/L	U	N Y	U					CQC22W	20:4
				DI-N-BUTYL PHTHALATE	.01	mg/L	U	N Y	U					CQC22W	20:4
				DI-N-OCTYL PHTHALATE	.01	mg/L	U	N Y	U					CQC22W	20:4
				DIBENZ(A,H)ANTHRACENE	.01	mg/L	U	N Y	U					CQC22W	20:4
				DIBENZOFURAN	.01	mg/L	U	N Y	U					CQC22W	20:4
				DIETHYL PHTHALATE	.01	mg/L	U	N Y	U					CQC22W	20:4
				DIMETHYL PHTHALATE	.01	mg/L	U	N Y	U					CQC22W	20:4
				FLUORANTHENE	.01	mg/L	U	N Y	U					CQC22W	20:4
				FLUORENE	.01	mg/L	U	N Y	U					CQC22W	20:4
				HEXACHLOROBENZENE	.01	mg/L	U	N Y	U					CQC22W	20:4
				HEXACHLOROBUTADIENE	.01	mg/L	U	N Y	U					CQC22W	20:4
				HEXACHLOROCYCLOPENTADIENE	.05	mg/L	U	N Y	U					CQC22W	20:4
				HEXACHLOROETHANE	.01	mg/L	U	N Y	U					CQC22W	20:4
				INDENO(1,2,3-CD)PYRENE	.01	mg/L	U	N Y	U					CQC22W	20:4
				ISOPHORONE	.01	mg/L	U	N Y	U					CQC22W	20:4
				N-NITROSODI-N-PROPYLAMINE	.01	mg/L	U	N Y	U					CQC22W	20:4
				N-NITROSODIPHENYLAMINE	.01	mg/L	U	N Y	U					CQC22W	20:4
				NAPHTHALENE	.01	mg/L	U	N Y	U					CQC22W	20:4
				NITROBENZENE	.01	mg/L	U	N Y	U					CQC22W	20:4
				PENTACHLOROPHENOL	.05	mg/L	U	N Y	U					CQC22W	20:4
				PHENANTHRENE	.01	mg/L	U	N Y	U					CQC22W	20:4
				PHENOL	.01	mg/L	U	N Y	U					CQC22W	20:4
				PYRENE	.01	mg/L	U	N Y	U					CQC22W	20:4
KU2004	SW6010	SW3005	N 0 1	ALUMINUM	.0721	mg/L	B	Y Y F	B	06B	15			CQME5W	18:0
				ANTIMONY	.06	mg/L	U	N Y U	U					CQME5W	18:0
				BARIUM	.0371	mg/L	B	Y Y P	J	15				CQME5W	18:0
				BERYLLIUM	.005	mg/L	U	N Y U	U					CQME5W	18:0
				CADMIUM	.005	mg/L	U	N Y U	U					CQME5W	18:0
				CALCIUM	95.2	mg/L		Y Y P						CQME5W	18:0
				CHROMIUM	.01	mg/L	U	N Y U	U					CQME5W	18:0
				COBALT	.05	mg/L	U	N Y U	U					CQME5W	18:0
				COPPER	.025	mg/L	U	N Y U	U					CQME5W	18:0
				IRON	.101	mg/L		Y Y F	B	06B				CQME5W	18:0
				MAGNESIUM	54.3	mg/L		Y Y P						CQME5W	18:0
				MANGANESE	.0962	mg/L		Y Y P						CQME5W	18:0
				NICKEL	.04	mg/L	U	N Y U	U					CQME5W	18:0
				POTASSIUM	1.47	mg/L	B	Y Y F	B	06B	15			CQME5W	18:0
				SILVER	.01	mg/L	U	N Y U	U					CQME5W	18:0
				SODIUM	17.6	mg/L		Y Y P						CQME5W	18:0
				VANADIUM	.05	mg/L	U	N Y U	U					CQME5W	18:0
				ZINC	.02	mg/L	U	N Y U	U					CQME5W	18:0
	SW6010	TOTREC	N 0 1	ARSENIC	.01	mg/L	U	N Y U	U					CQME5W	18:0
				LEAD	.003	mg/L	U	N Y U	U					CQME5W	18:0

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU2004	SW6010	TOTREC	N	0	1	SELENIUM	.005	mg/L	U	N	Y	U	U					CQME5W	18:0
						THALLIUM	.01	mg/L	U	N	Y	U	U					CQME5W	18:0
	SW7470	TOTAL	N	0	1	MERCURY	.000049	mg/L	B	Y	Y	F	B	06A	15			CQME5W	12:5
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						1,1,1-TRICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						1,1,2,2-TETRACHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						1,1,2-TRICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						1,1-DICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						1,1-DICHLOROETHENE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						1,1-DICHLOROPROPENE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						1,2,3-TRICHLOROBENZENE	.001	mg/L	U	N	Y	U	UJ	05B				CQME5W	19:0
						1,2,3-TRICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						1,2,4-TRICHLOROBENZENE	.001	mg/L	U	N	Y	U	UJ	05B				CQME5W	19:0
						1,2,4-TRIMETHYLBENZENE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						1,2-DIBROMO-3-CHLOROPROPANE	.002	mg/L	U	N	Y	U	R	04A	05A	05B		CQME5W	19:0
						1,2-DIBROMOETHANE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						1,2-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	UJ	05B				CQME5W	19:0
						1,2-DICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						1,2-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						1,3,5-TRIMETHYLBENZENE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						1,3-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						1,3-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						1,4-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	UJ	05B				CQME5W	19:0
						2,2-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						2-BUTANONE	.005	mg/L	U	N	Y	U	R	04A	05A	05B		CQME5W	19:0
						2-CHLOROTOLUENE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						2-HEXANONE	.005	mg/L	U	N	Y	U	UJ	05B				CQME5W	19:0
						4-CHLOROTOLUENE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						4-METHYL-2-PENTANONE	.005	mg/L	U	N	Y	U	UJ	05B				CQME5W	19:0
						ACETONE	.0021	mg/L	J B	Y	Y	F	B	04A	04B	05A	06A	CQME5W	19:0
						BENZENE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						BROMOBENZENE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						BROMOCHLOROMETHANE	.001	mg/L	U	N	Y	U	R	04A	05A			CQME5W	19:0
						BROMODICHLOROMETHANE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						BROMOFORM	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						BROMOMETHANE	.002	mg/L	U	N	Y	U	U					CQME5W	19:0
						CARBON DISULFIDE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						CARBON TETRACHLORIDE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						CHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						CHLORODIBROMOMETHANE	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						CHLOROETHANE	.002	mg/L	U	N	Y	U	U					CQME5W	19:0
						CHLOROFORM	.001	mg/L	U	N	Y	U	U					CQME5W	19:0
						CHLOROMETHANE	.002	mg/L	U	N	Y	U	U					CQME5W	19:0

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU2004	SW8260	SW5030	N 0 1	CIS-1,2-DICHLOROETHENE	.001	mg/L	U	N Y U	U					CQME5W	19:0
				CIS-1,3-DICHLOROPROPENE	.001	mg/L	U	N Y U	U					CQME5W	19:0
				DIBROMOMETHANE	.001	mg/L	U	N Y U	R	04A	05A			CQME5W	19:0
				DICHLORODIFLUOROMETHANE	.002	mg/L	U	N Y U	UJ	05B				CQME5W	19:0
				ETHYLBENZENE	.001	mg/L	U	N Y U	U					CQME5W	19:0
				HEXACHLOROBUTADIENE	.001	mg/L	U	N Y U	UJ	05B				CQME5W	19:0
				ISOPROPYLBENZENE	.001	mg/L	U	N Y U	U					CQME5W	19:0
				M-XYLENE & P-XYLENE	.001	mg/L	U	N Y U	U					CQME5W	19:0
				METHYLENE CHLORIDE	.001	mg/L	U	N Y U	UJ	04B				CQME5W	19:0
				N-BUTYLBENZENE	.001	mg/L	U	N Y U	UJ	05B				CQME5W	19:0
				N-PROPYLBENZENE	.001	mg/L	U	N Y U	U					CQME5W	19:0
				NAPHTHALENE	.001	mg/L	U	N Y U	UJ	04B	05B			CQME5W	19:0
				O-XYLENE	.001	mg/L	U	N Y U	U					CQME5W	19:0
				P-ISOPROPYLTOLUENE	.001	mg/L	U	N Y U	UJ	05B				CQME5W	19:0
				SEC-BUTYLBENZENE	.001	mg/L	U	N Y U	UJ	05B				CQME5W	19:0
				STYRENE	.001	mg/L	U	N Y U	U					CQME5W	19:0
				TERT-BUTYLBENZENE	.001	mg/L	U	N Y U	U					CQME5W	19:0
				TETRACHLOROETHENE	.001	mg/L	U	N Y U	U					CQME5W	19:0
				TOLUENE	.001	mg/L	U	N Y U	U					CQME5W	19:0
				TRANS-1,2-DICHLOROETHENE	.001	mg/L	U	N Y U	U					CQME5W	19:0
				TRANS-1,3-DICHLOROPROPENE	.001	mg/L	U	N Y U	U					CQME5W	19:0
				TRICHLOROETHENE	.001	mg/L	U	N Y U	U					CQME5W	19:0
				TRICHLOROFLUOROMETHANE	.002	mg/L	U	N Y U	U					CQME5W	19:0
				VINYL CHLORIDE	.002	mg/L	U	N Y U	U					CQME5W	19:0
	SW8270	SW3520	N 0 1	1,2,4-TRICHLOROBENZENE	.01	mg/L	U	N Y U	U					CQME5W	15:0
				1,2-DICHLOROBENZENE	.01	mg/L	U	N Y U	U					CQME5W	15:0
				1,3-DICHLOROBENZENE	.01	mg/L	U	N Y U	U					CQME5W	15:0
				1,4-DICHLOROBENZENE	.01	mg/L	U	N Y U	U					CQME5W	15:0
				2,2'-OXYBIS(1-CHLOROPROPANE)	.01	mg/L	U	N Y U	U					CQME5W	15:0
				2,4,5-TRICHLOROPHENOL	.01	mg/L	U	N Y U	U					CQME5W	15:0
				2,4,6-TRICHLOROPHENOL	.01	mg/L	U	N Y U	U					CQME5W	15:0
				2,4-DICHLOROPHENOL	.01	mg/L	U	N Y U	U					CQME5W	15:0
				2,4-DIMETHYLPHENOL	.01	mg/L	U	N Y U	U					CQME5W	15:0
				2,4-DINITROPHENOL	.05	mg/L	U	N Y U	U					CQME5W	15:0
				2,4-DINITROTOLUENE	.01	mg/L	U	N Y U	U					CQME5W	15:0
				2,6-DINITROTOLUENE	.01	mg/L	U	N Y U	U					CQME5W	15:0
				2-CHLORONAPHTHALENE	.01	mg/L	U	N Y U	U					CQME5W	15:0
				2-CHLOROPHENOL	.01	mg/L	U	N Y U	U					CQME5W	15:0
				2-METHYLNAPHTHALENE	.01	mg/L	U	N Y U	U					CQME5W	15:0
				2-METHYLPHENOL	.01	mg/L	U	N Y U	U					CQME5W	15:0
				2-NITROANILINE	.05	mg/L	U	N Y U	U					CQME5W	15:0
				2-NITROPHENOL	.01	mg/L	U	N Y U	U					CQME5W	15:0
				3,3'-DICHLOROBENZIDINE	.05	mg/L	U	N Y U	U					CQME5W	15:0

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1 2 3 4	Lab Sample:	Anal Tim
KU2004	SW8270	SW3520	N 0 1	3-NITROANILINE	.05	mg/L	U	N Y U	U		CQME5W	15:0
				4,6-DINITRO-2-METHYLPHENOL	.05	mg/L	U	N Y U	U		CQME5W	15:0
				4-BROMOPHENYL PHENYL ETHER	.01	mg/L	U	N Y U	U		CQME5W	15:0
				4-CHLORO-3-METHYLPHENOL	.01	mg/L	U	N Y U	U		CQME5W	15:0
				4-CHLOROANILINE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				4-CHLOROPHENYL PHENYL ETHER	.01	mg/L	U	N Y U	U		CQME5W	15:0
				4-METHYLPHENOL	.01	mg/L	U	N Y U	U		CQME5W	15:0
				4-NITROANILINE	.05	mg/L	U	N Y U	U		CQME5W	15:0
				4-NITROPHENOL	.05	mg/L	U	N Y U	U		CQME5W	15:0
				ACENAPHTHENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				ACENAPHTHYLENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				ANTHRACENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				BENZ(A)ANTHRACENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				BENZO(A)PYRENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				BENZO(B)FLUORANTHENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				BENZO(GHI)PERYLENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				BENZO(K)FLUORANTHENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				BIS(2-CHLOROETHOXY)METHANE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				BIS(2-CHLOROETHYL) ETHER	.01	mg/L	U	N Y U	U		CQME5W	15:0
				BIS(2-ETHYLHEXYL) PHTHALATE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				BUTYL BENZYL PHTHALATE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				CARBAZOLE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				CHRYSENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				DI-N-BUTYL PHTHALATE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				DI-N-OCTYL PHTHALATE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				DIBENZ(A,H)ANTHRACENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				DIBENZOFURAN	.01	mg/L	U	N Y U	U		CQME5W	15:0
				DIETHYL PHTHALATE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				DIMETHYL PHTHALATE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				FLUORANTHENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				FLUORENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				HEXACHLOROBENZENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				HEXACHLOROBUTADIENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				HEXACHLOROCYCLOPENTADIENE	.05	mg/L	U	N Y U	U		CQME5W	15:0
				HEXACHLOROETHANE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				INDENO(1,2,3-CD)PYRENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				ISOPHORONE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				N-NITROSODI-N-PROPYLAMINE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				N-NITROSODIPHENYLAMINE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				NAPHTHALENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				NITROBENZENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				PENTACHLOROPHENOL	.05	mg/L	U	N Y U	U		CQME5W	15:0
				PHENANTHRENE	.01	mg/L	U	N Y U	U		CQME5W	15:0
				PHENOL	.01	mg/L	U	N Y U	U		CQME5W	15:0

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU2004	SW8270	SW3520	N	0	1	PYRENE	.01	mg/L	U	N	Y	U	U					CQME5W	15:0
KU3001	SW6010	SW3005	N	0	1	ALUMINUM	.0781	mg/L	B	Y	Y	P	J	15				CR4WFW	17:1
						ANTIMONY	.06	mg/L	U	N	Y	U	U					CR4WFW	17:1
						BARIUM	.0372	mg/L	B	Y	Y	P	J	15				CR4WFW	17:1
						BERYLLIUM	.005	mg/L	U	N	Y	U	U					CR4WFW	17:1
						CADMIUM	.005	mg/L	U	N	Y	U	U					CR4WFW	17:1
						CALCIUM	199	mg/L		Y	Y	P						CR4WFW	17:1
						CHROMIUM	.01	mg/L	U	N	Y	U	U					CR4WFW	17:1
						COBALT	.05	mg/L	U	N	Y	U	U					CR4WFW	17:1
						COPPER	.025	mg/L	U	N	Y	U	U					CR4WFW	17:1
						IRON	11.2	mg/L		Y	Y	P						CR4WFW	17:1
						MAGNESIUM	180	mg/L		Y	Y	P						CR4WFW	17:1
						MANGANESE	7.04	mg/L		Y	Y	P						CR4WFW	17:1
						NICKEL	.04	mg/L	U	N	Y	U	U					CR4WFW	17:1
						POTASSIUM	.952	mg/L	B	Y	Y	F	B	06B	12	15		CR4WFW	17:1
						SILVER	.01	mg/L	U	N	Y	U	U					CR4WFW	17:1
						SODIUM	73.8	mg/L		Y	Y	P						CR4WFW	17:1
						VANADIUM	.05	mg/L	U	N	Y	U	U					CR4WFW	17:1
						ZINC	.02	mg/L	U	N	Y	U	U					CR4WFW	17:1
	SW6010	TOTREC	N	0	1	ARSENIC	.0034	mg/L	B	Y	Y	P	J	15				CR4WFW	17:1
						LEAD	.003	mg/L	U	N	Y	U	U					CR4WFW	17:1
						SELENIUM	.005	mg/L	U	N	Y	U	U					CR4WFW	17:1
						THALLIUM	.01	mg/L	U	N	Y	U	U					CR4WFW	17:1
	SW7470	TOTAL	N	0	1	MERCURY	.0002	mg/L	U	N	Y	U	U					CR4WFW	18:4
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,1,1-TRICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,1,2,2-TETRACHLOROETHANE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,1,2-TRICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,1-DICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,1-DICHLOROETHENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,1-DICHLOROPROPENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,2,3-TRICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,2,3-TRICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,2,4-TRICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,2,4-TRIMETHYLBENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,2-DIBROMO-3-CHLOROPROPANE	.002	mg/L	U	N	Y	U	R	04A				CR4WFW	23:4
						1,2-DIBROMOETHANE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,2-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,2-DICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,2-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,3,5-TRIMETHYLBENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,3-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						1,3-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU3001	SW8260	SW5030	N	0	1	1,4-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						2,2-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						2-BUTANONE	.005	mg/L	U	N	Y	U	R	04A				CR4WFW	23:4
						2-CHLOROTOLUENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						2-HEXANONE	.005	mg/L	U	N	Y	U	U					CR4WFW	23:4
						4-CHLOROTOLUENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						4-METHYL-2-PENTANONE	.005	mg/L	U	N	Y	U	U					CR4WFW	23:4
						ACETONE	.01	mg/L	U	N	Y	U	R	04A				CR4WFW	23:4
						BENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						BROMOBENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						BROMOCHLOROMETHANE	.001	mg/L	U	N	Y	U	R	04A				CR4WFW	23:4
						BROMODICHLOROMETHANE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						BROMOFORM	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						BROMOMETHANE	.002	mg/L	U	N	Y	U	U					CR4WFW	23:4
						CARBON DISULFIDE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						CARBON TETRACHLORIDE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						CHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						CHLORODIBROMOMETHANE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						CHLOROETHANE	.002	mg/L	U	N	Y	U	U					CR4WFW	23:4
						CHLOROFORM	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						CHLOROMETHANE	.002	mg/L	U	N	Y	U	U					CR4WFW	23:4
						CIS-1,2-DICHLOROETHENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						CIS-1,3-DICHLOROPROPENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						DIBROMOMETHANE	.001	mg/L	U	N	Y	U	R	04A				CR4WFW	23:4
						DICHLORODIFLUOROMETHANE	.002	mg/L	U	N	Y	U	U					CR4WFW	23:4
						ETHYLBENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						HEXACHLOROBUTADIENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						ISOPROPYLBENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						M-XYLENE & P-XYLENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						METHYLENE CHLORIDE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						N-BUTYLBENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						N-PROPYLBENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						NAPHTHALENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						O-XYLENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						P-ISOPROPYLTOLUENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						SEC-BUTYLBENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						STYRENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						TERT-BUTYLBENZENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						TETRACHLOROETHENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						TOLUENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						TRANS-1,2-DICHLOROETHENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						TRANS-1,3-DICHLOROPROPENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						TRICHLOROETHENE	.001	mg/L	U	N	Y	U	U					CR4WFW	23:4
						TRICHLOROFLUOROMETHANE	.002	mg/L	U	N	Y	U	U					CR4WFW	23:4

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1 2 3 4	Lab Sample:	Anal Tim
KU3001	SW8260	SW5030	N 0 1	VINYL CHLORIDE	.002	mg/L	U	N Y U	U		CR4WFW	23:4
	SW8270	SW3520	N 0 1	1,2,4-TRICHLOROBENZENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				1,2-DICHLOROBENZENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				1,3-DICHLOROBENZENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				1,4-DICHLOROBENZENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				2,2'-OXYBIS(1-CHLOROPROPANE)	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				2,4,5-TRICHLOROPHENOL	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				2,4,6-TRICHLOROPHENOL	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				2,4-DICHLOROPHENOL	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				2,4-DIMETHYLPHENOL	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				2,4-DINITROPHENOL	.05	mg/L	U	N Y U	U		CR4WFW	18:1
				2,4-DINITROTOLUENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				2,6-DINITROTOLUENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				2-CHLORONAPHTHALENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				2-CHLOROPHENOL	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				2-METHYLNAPHTHALENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				2-METHYLPHENOL	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				2-NITROANILINE	.05	mg/L	U	N Y U	U		CR4WFW	18:1
				2-NITROPHENOL	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				3,3'-DICHLOROBENZIDINE	.05	mg/L	U	N Y U	U		CR4WFW	18:1
				3-NITROANILINE	.05	mg/L	U	N Y U	U		CR4WFW	18:1
				4,6-DINITRO-2-METHYLPHENOL	.05	mg/L	U	N Y U	U		CR4WFW	18:1
				4-BROMOPHENYL PHENYL ETHER	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				4-CHLORO-3-METHYLPHENOL	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				4-CHLOROANILINE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				4-CHLOROPHENYL PHENYL ETHER	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				4-METHYLPHENOL	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				4-NITROANILINE	.05	mg/L	U	N Y U	U		CR4WFW	18:1
				4-NITROPHENOL	.05	mg/L	U	N Y U	U		CR4WFW	18:1
				ACENAPHTHENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				ACENAPHTHYLENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				ANTHRACENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				BENZO(A)ANTHRACENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				BENZO(A)PYRENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				BENZO(B)FLUORANTHENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				BENZO(GHI)PERYLENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				BENZO(K)FLUORANTHENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				BIS(2-CHLOROETHOXY)METHANE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				BIS(2-CHLOROETHYL) ETHER	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				BIS(2-ETHYLHEXYL) PHTHALATE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				BUTYL BENZYL PHTHALATE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				CARBAZOLE	.01	mg/L	U	N Y U	U		CR4WFW	18:1
				CHRYSENE	.01	mg/L	U	N Y U	U		CR4WFW	18:1

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU3001	SW8270	SW3520	N 0 1	DI-N-BUTYL PHTHALATE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				DI-N-OCTYL PHTHALATE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				DIBENZ(A,H)ANTHRACENE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				DIBENZOFURAN	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				DIETHYL PHTHALATE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				DIMETHYL PHTHALATE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				FLUORANTHENE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				FLUORENE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				HEXACHLOROBENZENE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				HEXACHLOROBUTADIENE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				HEXACHLOROCYCLOPENTADIENE	.05	mg/L	U	N Y U	U					CR4WFW	18:1
				HEXACHLOROETHANE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				INDENO(1,2,3-CD)PYRENE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				ISOPHORONE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				N-NITROSODI-N-PROPYLAMINE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				N-NITROSODIPHENYLAMINE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				NAPHTHALENE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				NITROBENZENE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				PENTACHLOROPHENOL	.05	mg/L	U	N Y U	U					CR4WFW	18:1
				PHENANTHRENE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				PHENOL	.01	mg/L	U	N Y U	U					CR4WFW	18:1
				PYRENE	.01	mg/L	U	N Y U	U					CR4WFW	18:1
KU3002	SW6010	SW3005	N 0 1	ALUMINUM	.0757	mg/L	B	Y Y	J	15				CR4WGW	17:3
				ANTIMONY	.06	mg/L	U	N Y	U					CR4WGW	17:3
				BARIUM	.0365	mg/L	B	Y Y	J	15				CR4WGW	17:3
				BERYLLIUM	.005	mg/L	U	N Y	U					CR4WGW	17:3
				CADMIUM	.005	mg/L	U	N Y	U					CR4WGW	17:3
				CALCIUM	201	mg/L		Y Y						CR4WGW	17:3
				CHROMIUM	.01	mg/L	U	N Y	U					CR4WGW	17:3
				COBALT	.05	mg/L	U	N Y	U					CR4WGW	17:3
				COPPER	.025	mg/L	U	N Y	U					CR4WGW	17:3
				IRON	12.1	mg/L		Y Y						CR4WGW	17:3
				MAGNESIUM	181	mg/L		Y Y						CR4WGW	17:3
				MANGANESE	7.21	mg/L		Y Y						CR4WGW	17:3
				NICKEL	.04	mg/L	U	N Y	U					CR4WGW	17:3
				POTASSIUM	1.05	mg/L	B	Y Y	B	06B	12	15		CR4WGW	17:3
				SILVER	.01	mg/L	U	N Y	U					CR4WGW	17:3
				SODIUM	74.4	mg/L		Y Y						CR4WGW	17:3
				VANADIUM	.05	mg/L	U	N Y	U					CR4WGW	17:3
				ZINC	.02	mg/L	U	N Y	U					CR4WGW	17:3
	SW6010	TOTREC	N 0 1	ARSENIC	.0034	mg/L	B	Y Y	J	15				CR4WGW	17:3
				LEAD	.003	mg/L	U	N Y	U					CR4WGW	17:3
				SELENIUM	.005	mg/L	U	N Y	U					CR4WGW	17:3

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU3002	SW6010	TOTREC	N 0 1	THALLIUM	.01	mg/L	U	N Y	U					CR4WGW	17:3
	SW7470	TOTAL	N 0 1	MERCURY	.0002	mg/L	U	N Y	U					CR4WGW	18:4
	SW8260	SW5030	N 0 1	1,1,1,2-TETRACHLOROETHANE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,1,1-TRICHLOROETHANE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,1,2,2-TETRACHLOROETHANE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,1,2-TRICHLOROETHANE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,1-DICHLOROETHANE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,1-DICHLOROETHENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,1-DICHLOROPROPENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,2,3-TRICHLOROBENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,2,3-TRICHLOROPROPANE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,2,4-TRICHLOROBENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,2,4-TRIMETHYLBENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,2-DIBROMO-3-CHLOROPROPANE	.002	mg/L	U	N Y	R	04A				CR4WGW	00:0
				1,2-DIBROMOETHANE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,2-DICHLOROBENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,2-DICHLOROETHANE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,2-DICHLOROPROPANE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,3,5-TRIMETHYLBENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,3-DICHLOROBENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,3-DICHLOROPROPANE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				1,4-DICHLOROBENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				2,2-DICHLOROPROPANE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				2-BUTANONE	.005	mg/L	U	N Y	R	04A				CR4WGW	00:0
				2-CHLOROTOLUENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				2-HEXANONE	.005	mg/L	U	N Y	U					CR4WGW	00:0
				4-CHLOROTOLUENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				4-METHYL-2-PENTANONE	.005	mg/L	U	N Y	U					CR4WGW	00:0
				ACETONE	.0019	mg/L	J B	Y Y	B	04A	06A	15		CR4WGW	00:0
				BENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				BROMOBENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				BROMOCHLOROMETHANE	.001	mg/L	U	N Y	R	04A				CR4WGW	00:0
				BROMODICHLOROMETHANE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				BROMOFORM	.001	mg/L	U	N Y	U					CR4WGW	00:0
				BROMOMETHANE	.002	mg/L	U	N Y	U					CR4WGW	00:0
				CARBON DISULFIDE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				CARBON TETRACHLORIDE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				CHLOROBENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				CHLORODIBROMOMETHANE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				CHLOROETHANE	.002	mg/L	U	N Y	U					CR4WGW	00:0
				CHLOROFORM	.001	mg/L	U	N Y	U					CR4WGW	00:0
				CHLOROMETHANE	.002	mg/L	U	N Y	U					CR4WGW	00:0
				CIS-1,2-DICHLOROETHENE	.001	mg/L	U	N Y	U					CR4WGW	00:0

Validation Qualifier Data Entry Verification
Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU3002	SW8260	SW5030	N 0 1	CIS-1,3-DICHLOROPROPENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				DIBROMOMETHANE	.001	mg/L	U	N Y	R	04A				CR4WGW	00:0
				DICHLORODIFLUOROMETHANE	.002	mg/L	U	N Y	U					CR4WGW	00:0
				ETHYLBENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				HEXACHLOROBUTADIENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				ISOPROPYLBENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				M-XYLENE & P-XYLENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				METHYLENE CHLORIDE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				N-BUTYLBENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				N-PROPYLBENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				NAPHTHALENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				O-XYLENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				P-ISOPROPYLTOLUENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				SEC-BUTYLBENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				STYRENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				TERT-BUTYLBENZENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				TETRACHLOROETHENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				TOLUENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				TRANS-1,2-DICHLOROETHENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				TRANS-1,3-DICHLOROPROPENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				TRICHLOROETHENE	.001	mg/L	U	N Y	U					CR4WGW	00:0
				TRICHLOROFLUOROMETHANE	.002	mg/L	U	N Y	U					CR4WGW	00:0
				VINYL CHLORIDE	.002	mg/L	U	N Y	U					CR4WGW	00:0
	SW8270	SW3520	N 0 1	1,2,4-TRICHLOROBENZENE	.01	mg/L	U	N Y	U					CR4WGW	18:5
				1,2-DICHLOROBENZENE	.01	mg/L	U	N Y	U					CR4WGW	18:5
				1,3-DICHLOROBENZENE	.01	mg/L	U	N Y	U					CR4WGW	18:5
				1,4-DICHLOROBENZENE	.01	mg/L	U	N Y	U					CR4WGW	18:5
				2,2'-OXYBIS(1-CHLOROPROPANE)	.01	mg/L	U	N Y	U					CR4WGW	18:5
				2,4,5-TRICHLOROPHENOL	.01	mg/L	U	N Y	U					CR4WGW	18:5
				2,4,6-TRICHLOROPHENOL	.01	mg/L	U	N Y	U					CR4WGW	18:5
				2,4-DICHLOROPHENOL	.01	mg/L	U	N Y	U					CR4WGW	18:5
				2,4-DIMETHYLPHENOL	.01	mg/L	U	N Y	U					CR4WGW	18:5
				2,4-DINITROPHENOL	.05	mg/L	U	N Y	U					CR4WGW	18:5
				2,4-DINITROTOLUENE	.01	mg/L	U	N Y	U					CR4WGW	18:5
				2,6-DINITROTOLUENE	.01	mg/L	U	N Y	U					CR4WGW	18:5
				2-CHLORONAPHTHALENE	.01	mg/L	U	N Y	U					CR4WGW	18:5
				2-CHLOROPHENOL	.01	mg/L	U	N Y	U					CR4WGW	18:5
				2-METHYLNAPHTHALENE	.01	mg/L	U	N Y	U					CR4WGW	18:5
				2-METHYLPHENOL	.01	mg/L	U	N Y	U					CR4WGW	18:5
				2-NITROANILINE	.05	mg/L	U	N Y	U					CR4WGW	18:5
				2-NITROPHENOL	.01	mg/L	U	N Y	U					CR4WGW	18:5
				3,3'-DICHLOROBENZIDINE	.05	mg/L	U	N Y	U					CR4WGW	18:5
				3-NITROANILINE	.05	mg/L	U	N Y	U					CR4WGW	18:5

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1 2 3 4	Lab Sample:	Anal Tim
KU3002	SW8270	SW3520	N 0 1	4,6-DINITRO-2-METHYLPHENOL	.05	mg/L	U	N Y	U		CR4WGW	18:5
				4-BROMOPHENYL PHENYL ETHER	.01	mg/L	U	N Y	U		CR4WGW	18:5
				4-CHLORO-3-METHYLPHENOL	.01	mg/L	U	N Y	U		CR4WGW	18:5
				4-CHLOROANILINE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				4-CHLOROPHENYL PHENYL ETHER	.01	mg/L	U	N Y	U		CR4WGW	18:5
				4-METHYLPHENOL	.01	mg/L	U	N Y	U		CR4WGW	18:5
				4-NITROANILINE	.05	mg/L	U	N Y	U		CR4WGW	18:5
				4-NITROPHENOL	.05	mg/L	U	N Y	U		CR4WGW	18:5
				ACENAPHTHENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				ACENAPHTHYLENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				ANTHRACENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				BENZO(A)ANTHRACENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				BENZO(A)PYRENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				BENZO(B)FLUORANTHENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				BENZO(GHI)PERYLENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				BENZO(K)FLUORANTHENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				BIS(2-CHLOROETHOXY)METHANE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				BIS(2-CHLOROETHYL) ETHER	.01	mg/L	U	N Y	U		CR4WGW	18:5
				BIS(2-ETHYLHEXYL) PHTHALATE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				BUTYL BENZYL PHTHALATE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				CARBAZOLE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				CHRYSENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				DI-N-BUTYL PHTHALATE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				DI-N-OCTYL PHTHALATE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				DIBENZ(A,H)ANTHRACENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				DIBENZOFURAN	.01	mg/L	U	N Y	U		CR4WGW	18:5
				DIETHYL PHTHALATE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				DIMETHYL PHTHALATE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				FLUORANTHENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				FLUORENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				HEXACHLOROBENZENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				HEXACHLOROBUTADIENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				HEXACHLOROCYCLOPENTADIENE	.05	mg/L	U	N Y	U		CR4WGW	18:5
				HEXACHLOROETHANE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				INDENO(1,2,3-CD)PYRENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				ISOPHORONE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				N-NITROSODI-N-PROPYLAMINE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				N-NITROSODIPHENYLAMINE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				NAPHTHALENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				NITROBENZENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				PENTACHLOROPHENOL	.05	mg/L	U	N Y	U		CR4WGW	18:5
				PHENANTHRENE	.01	mg/L	U	N Y	U		CR4WGW	18:5
				PHENOL	.01	mg/L	U	N Y	U		CR4WGW	18:5
				PYRENE	.01	mg/L	U	N Y	U		CR4WGW	18:5

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt	REX	Dil:	Parameter:	Result:	Units:	Qlfr:	Hit	Use	BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU3004	SW6010	SW3005	N	0	1	ALUMINUM	.0916	mg/L	B	Y	Y	P	J	15				CR4WHW	17:3
						ANTIMONY	.06	mg/L	U	N	Y	U	U					CR4WHW	17:3
						BARIUM	.0272	mg/L	B	Y	Y	P	J	15				CR4WHW	17:3
						BERYLLIUM	.005	mg/L	U	N	Y	U	U					CR4WHW	17:3
						CADMIUM	.005	mg/L	U	N	Y	U	U					CR4WHW	17:3
						CALCIUM	120	mg/L		Y	Y	P						CR4WHW	17:3
						CHROMIUM	.01	mg/L	U	N	Y	U	U					CR4WHW	17:3
						COBALT	.05	mg/L	U	N	Y	U	U					CR4WHW	17:3
						COPPER	.025	mg/L	U	N	Y	U	U					CR4WHW	17:3
						IRON	1.06	mg/L		Y	Y	P						CR4WHW	17:3
						MAGNESIUM	103	mg/L		Y	Y	P						CR4WHW	17:3
						MANGANESE	8.7	mg/L		Y	Y	P						CR4WHW	17:3
						NICKEL	.04	mg/L	U	N	Y	U	U					CR4WHW	17:3
						POTASSIUM	1.19	mg/L	B	Y	Y	F	B	06B	12	15		CR4WHW	17:3
						SILVER	.01	mg/L	U	N	Y	U	U					CR4WHW	17:3
						SODIUM	58.8	mg/L		Y	Y	P						CR4WHW	17:3
						VANADIUM	.05	mg/L	U	N	Y	U	U					CR4WHW	17:3
						ZINC	.02	mg/L	U	N	Y	U	U					CR4WHW	17:3
	SW6010	TOTREC	N	0	1	ARSENIC	.01	mg/L	U	N	Y	U	U					CR4WHW	17:3
						LEAD	.003	mg/L	U	N	Y	U	U					CR4WHW	17:3
						SELENIUM	.005	mg/L	U	N	Y	U	U					CR4WHW	17:3
						THALLIUM	.01	mg/L	U	N	Y	U	U					CR4WHW	17:3
	SW7470	TOTAL	N	0	1	MERCURY	.000063	mg/L	B	Y	Y	P	J	15				CR4WHW	18:4
	SW8260	SW5030	N	0	1	1,1,1,2-TETRACHLOROETHANE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,1,1-TRICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,1,2,2-TETRACHLOROETHANE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,1,2-TRICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,1-DICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,1-DICHLOROETHENE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,1-DICHLOROPROPENE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,2,3-TRICHLOROBENZENE	.0003	mg/L	J B	Y	Y	F	B	06A	15			CR4WHW	22:4
						1,2,3-TRICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,2,4-TRICHLOROBENZENE	.0002	mg/L	J B	Y	Y	F	B	06A	15			CR4WHW	22:4
						1,2,4-TRIMETHYLBENZENE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,2-DIBROMO-3-CHLOROPROPANE	.002	mg/L	U	N	Y	U	R	04A				CR4WHW	22:4
						1,2-DIBROMOETHANE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,2-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,2-DICHLOROETHANE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,2-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,3,5-TRIMETHYLBENZENE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,3-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,3-DICHLOROPROPANE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4
						1,4-DICHLOROBENZENE	.001	mg/L	U	N	Y	U	U					CR4WHW	22:4

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1	2	3	4	Lab Sample:	Anal Tim
KU3004	SW8260	SW5030	N 0 1	2,2-DICHLOROPROPANE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				2-BUTANONE	.005	mg/L	U	N Y U	R	04A				CR4WHW	22:4
				2-CHLOROTOLUENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				2-HEXANONE	.005	mg/L	U	N Y U	U					CR4WHW	22:4
				4-CHLOROTOLUENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				4-METHYL-2-PENTANONE	.005	mg/L	U	N Y U	U					CR4WHW	22:4
				ACETONE	.0014	mg/L	J B	Y Y F	B	04A	06A	15		CR4WHW	22:4
				BENZENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				BROMOBENZENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				BROMOCHLOROMETHANE	.001	mg/L	U	N Y U	R	04A				CR4WHW	22:4
				BROMODICHLOROMETHANE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				BROMOFORM	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				BROMOMETHANE	.002	mg/L	U	N Y U	U					CR4WHW	22:4
				CARBON DISULFIDE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				CARBON TETRACHLORIDE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				CHLOROBENZENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				CHLORODIBROMOMETHANE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				CHLOROETHANE	.002	mg/L	U	N Y U	U					CR4WHW	22:4
				CHLOROFORM	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				CHLOROMETHANE	.002	mg/L	U	N Y U	U					CR4WHW	22:4
				CIS-1,2-DICHLOROETHENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				CIS-1,3-DICHLOROPROPENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				DIBROMOMETHANE	.001	mg/L	U	N Y U	R	04A				CR4WHW	22:4
				DICHLORODIFLUOROMETHANE	.002	mg/L	U	N Y U	U					CR4WHW	22:4
				ETHYLBENZENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				HEXACHLOROBUTADIENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				ISOPROPYLBENZENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				M-XYLENE & P-XYLENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				METHYLENE CHLORIDE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				N-BUTYLBENZENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				N-PROPYLBENZENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				NAPHTHALENE	.00057	mg/L	J B	Y Y F	B	06A	15			CR4WHW	22:4
				O-XYLENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				P-ISOPROPYLTOLUENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				SEC-BUTYLBENZENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				STYRENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				TERT-BUTYLBENZENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				TETRACHLOROETHENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				TOLUENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				TRANS-1,2-DICHLOROETHENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				TRANS-1,3-DICHLOROPROPENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				TRICHLOROETHENE	.001	mg/L	U	N Y U	U					CR4WHW	22:4
				TRICHLOROFLUOROMETHANE	.002	mg/L	U	N Y U	U					CR4WHW	22:4
				VINYL CHLORIDE	.002	mg/L	U	N Y U	U					CR4WHW	22:4

Validation Qualifier Data Entry Verification

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1 2 3 4	Lab Sample:	Anal Tim
KU3004	SW8270	SW3520	N 0 1	1,2,4-TRICHLOROBENZENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				1,2-DICHLOROBENZENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				1,3-DICHLOROBENZENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				1,4-DICHLOROBENZENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				2,2'-OXYBIS(1-CHLOROPROPANE)	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				2,4,5-TRICHLOROPHENOL	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				2,4,6-TRICHLOROPHENOL	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				2,4-DICHLOROPHENOL	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				2,4-DIMETHYLPHENOL	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				2,4-DINITROPHENOL	.05	mg/L	U	N Y U	U		CR4WHW	19:2
				2,4-DINITROTOLUENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				2,6-DINITROTOLUENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				2-CHLORONAPHTHALENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				2-CHLOROPHENOL	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				2-METHYLNAPHTHALENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				2-METHYLPHENOL	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				2-NITROANILINE	.05	mg/L	U	N Y U	U		CR4WHW	19:2
				2-NITROPHENOL	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				3,3'-DICHLOROBENZIDINE	.05	mg/L	U	N Y U	U		CR4WHW	19:2
				3-NITROANILINE	.05	mg/L	U	N Y U	U		CR4WHW	19:2
				4,6-DINITRO-2-METHYLPHENOL	.05	mg/L	U	N Y U	U		CR4WHW	19:2
				4-BROMOPHENYL PHENYL ETHER	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				4-CHLORO-3-METHYLPHENOL	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				4-CHLOROANILINE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				4-CHLOROPHENYL PHENYL ETHER	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				4-METHYLPHENOL	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				4-NITROANILINE	.05	mg/L	U	N Y U	U		CR4WHW	19:2
				4-NITROPHENOL	.05	mg/L	U	N Y U	U		CR4WHW	19:2
				ACENAPHTHENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				ACENAPHTHYLENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				ANTHRACENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				BENZO(A)ANTHRACENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				BENZO(A)PYRENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				BENZO(B)FLUORANTHENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				BENZO(GHI)PERYLENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				BENZO(K)FLUORANTHENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				BIS(2-CHLOROETHOXY)METHANE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				BIS(2-CHLOROETHYL) ETHER	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				BIS(2-ETHYLHEXYL) PHTHALATE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				BUTYL BENZYL PHTHALATE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				CARBAZOLE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				CHRYSENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				DI-N-BUTYL PHTHALATE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				DI-N-OCTYL PHTHALATE	.01	mg/L	U	N Y U	U		CR4WHW	19:2

Validation Qualifier Data Entry Verification

Run Date: March 20, 2001

Fort McClellan

Sample Number:	Analytical/Extraction Method:		Flt REX Dil:	Parameter:	Result:	Units:	Qlfr:	Hit Use BCF	VQlfr / Code:	Reason Codes 1 2 3 4	Lab Sample:	Anal Tim
KU3004	SW8270	SW3520	N 0 1	DIBENZ(A,H)ANTHRACENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				DIBENZOFURAN	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				DIETHYL PHTHALATE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				DIMETHYL PHTHALATE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				FLUORANTHENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				FLUORENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				HEXACHLOROBENZENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				HEXACHLOROBUTADIENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				HEXACHLOROCYCLOPENTADIENE	.05	mg/L	U	N Y U	U		CR4WHW	19:2
				HEXACHLOROETHANE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				INDENO(1,2,3-CD)PYRENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				ISOPHORONE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				N-NITROSODI-N-PROPYLAMINE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				N-NITROSODIPHENYLAMINE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				NAPHTHALENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				NITROBENZENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				PENTACHLOROPHENOL	.05	mg/L	U	N Y U	U		CR4WHW	19:2
				PHENANTHRENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				PHENOL	.01	mg/L	U	N Y U	U		CR4WHW	19:2
				PYRENE	.01	mg/L	U	N Y U	U		CR4WHW	19:2

APPENDIX G

VARIANCE REPORTS

INTERNATIONAL TECHNOLOGY CORPORATION	**Variance No:** PARCEL174MARCH99.VR1
	Linked w/NC No: x
	Date of Issue: 3\9\99
	Page _1 of 1__
Project Name: **Fort McClellan** - CK05	Project Number: **774645**

-Variance Report -

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

Small Weapons Cleaning And Storage Compound Building 1378 Parcel 174(7):

The site-specific field sampling plan proposed a surface water sample and sediment sample at sample location PPMP-174-SW\SD03. A surface water sample and sediment sample was not collected at sample location PPMP-174-SW\SD03. A depositional soil sample PPMP-174-DEP01 was collected at this location.

Identified by: Jeffrey Tarr, PG - IT Site Manager	Date: 3-9-99

II. Justification For Variance:

A surface water sample and sediment sample was proposed at sample location PPMP-174-SW\SD03, but was not collected because surface water and sediment was not present. Several attempts were made to collect a surface water sample and sediment sample at sample location PPMP-174-SW\SD03, but all attempts were unsuccessful. A depositional soil sample PPMP-174-DEP01 was collected at this location to determine the presence or absence of contamination.

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

Final Site-Specific Field Sampling Plan, Small Weapons Cleaning and Storage Compound Building 1378 Parcel 174(7), November 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	4/30/99 Date
Approved by: Ellis C. Pope	11/5/99 Date
Project Manager Approval: Jeanne Yacoub	6/21/99 Date
QA Approval: Randy McBride	4/30/99 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%	6.8	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.

Table 4-10. Summary Statistics for Background Surface Water
Fort McClellan, Alabama

Run Time: 5:11:42 PM
Run Date: 7/9/98
Exposure Unit: WS

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	µg/L	67	57	85%	50	141	65	47,800	2,629.59	7,921	Lognormal	17,831	17,831		5,259
Arsenic	µg/L	65	9	14%	1.1	2.4	1.4	11	1.08	1.5	Lognormal	1.5	1.5		2.17
Barium	µg/L	67	67	100%	- -	- -	11	200	37.68	35	Lognormal	55	55		75.36
Beryllium	µg/L	56	9	16%	0.20	0.20	0.20	3.2	0.19	0.43	Lognormal	0.22	0.22		0.39
Bicarbonate	µg/L	56	40	71%	5,000	5,000	6,000	172,000	53,178.57	57,480	Lognormal	449,171	172,000	#	106,357
Cadmium	µg/L	67	10	15%	0.20	6.8	0.20	1.5	0.57	0.91	Lognormal	1.4	1.4		1.13
Calcium	µg/L	67	67	100%	- -	- -	179	64,100	12,583.19	13,701	Lognormal	218,721	64,100	#	25,166
Chloride	µg/L	56	56	100%	- -	- -	467	10,100	1,943.05	1,815	Lognormal	2,656	2,656		3,886
Chromium	µg/L	64	1	2%	6.0	17	14	14	5.56	1.7	Undetermined	6.3	6.3		11.13
Copper	µg/L	56	8	14%	5.0	8.1	7.1	72	6.35	13	Lognormal	8.1	8.1		12.70
Fluoride	µg/L	56	6	11%	100	200	128	579	107.86	85	Lognormal	139	139		215.71
Iron	µg/L	67	64	96%	45	78	74	232,000	9,814.08	37,961	Lognormal	46,205	46,205		19,628
Lead	µg/L	66	34	52%	0.60	4.5	0.60	47	4.33	8.3	Lognormal	19	19		8.67
Magnesium	µg/L	67	67	100%	- -	- -	171	24,400	5,486.16	5,916	Lognormal	34,551	24,400	#	10,972
Manganese	µg/L	67	64	96%	5.0	9.7	5.5	6,060	282.42	840	Lognormal	1,153	1,153		564.85
Nickel	µg/L	67	3	4%	15	34	40	70	11.23	11	Lognormal	14	14		22.46
Nitrate,Nitrite	µg/L	56	44	79%	10.0	10.0	11	838	106.09	181	Lognormal	507	507		212.18
Potassium	µg/L	67	61	91%	1,240	1,240	330	7,120	1,281.85	1,157	Lognormal	1,940	1,940		2,564
Sodium	µg/L	66	66	100%	- -	- -	296	15,200	1,718.44	2,043	Lognormal	2,401	2,401		3,437
Sulfate	µg/L	56	56	100%	- -	- -	1,060	62,400	4,313.57	8,203	Lognormal	5,784	5,784		8,627
Thallium	µg/L	59	1	2%	0.100	125	4.2	4.2	1.24	8.1	Undetermined	0.56	0.56		2.49
Total Alkalinity	µg/L	56	40	71%	5,000	5,000	6,000	172,000	53,178.57	57,480	Lognormal	449,171	172,000	#	106,357
Total Phosphorous	µg/L	56	24	43%	10.0	14	11	655	38.82	99	Lognormal	87	87		77.64
Vanadium	µg/L	63	5	8%	10.0	28	13	36	7.60	5.7	Lognormal	9.8	9.8		15.21
Zinc	µg/L	66	6	9%	18	30	27	182	20.17	26	Lognormal	24	24		40.35

[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 4-11. Summary Statistics for Background Sediment
Fort McClellan, Alabama

Run Time: 5:01:01 PM
Run Date: 7/9/98
Exposure Unit: DS

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	65	65	100%	- -	- -	657	17,400	4,296.32	3,138	Lognormal	6,591	6,590.77		8,593
Antimony	ug/g	59	40	68%	0.11	1.00	0.12	1.2	0.36	0.25	Lognormal	0.77	0.77		0.73
Arsenic	ug/g	58	58	100%	- -	- -	0.21	20	5.67	5.0	Lognormal	13	13.34		11.33
Barium	ug/g	65	65	100%	- -	- -	5.4	272	49.46	44	Lognormal	86	85.64		98.91
Beryllium	ug/g	55	55	100%	- -	- -	0.069	1.2	0.49	0.30	Lognormal	0.83	0.83		0.97
Cadmium	ug/g	65	47	72%	0.020	1.2	0.020	2.4	0.22	0.39	Lognormal	0.67	0.67		0.43
Calcium	ug/g	65	61	94%	60	99	88	2,810	555.76	557	Lognormal	1,370	1,369.94		1,111.51
Chromium	ug/g	65	65	100%	- -	- -	1.1	63	15.57	14	Lognormal	30	29.80		31.15
Cobalt	ug/g	64	59	92%	0.24	2.5	0.40	22	5.51	4.5	Lognormal	15	14.80		11.01
Copper	ug/g	61	60	98%	2.8	2.8	0.73	59	8.56	8.8	Lognormal	16	15.75		17.12
Iron	ug/g	65	65	100%	- -	- -	683	57,500	17,633.26	12,838	Lognormal	36,392	36,391.61		35,267
Lead	ug/g	62	61	98%	7.4	7.4	1.7	110	18.91	20	Lognormal	35	35.40		37.82
Magnesium	ug/g	65	65	100%	- -	- -	30	3,270	452.97	686	Lognormal	952	952.13		905.94
Manganese	ug/g	64	62	97%	4.2	5.0	8.7	2,050	356.15	385	Lognormal	1,735	1,735.37		712.31
Mercury	ug/g	65	37	57%	0.024	0.061	0.047	0.28	0.06	0.042	Lognormal	0.087	0.09		0.11
Nickel	ug/g	65	43	66%	2.1	5.3	2.4	33	6.51	6.9	Lognormal	14	14.02		13.02
Potassium	ug/g	65	46	71%	100	151	118	4,810	506.74	842	Lognormal	1,273	1,272.69		1,013.48
Selenium	ug/g	65	4	6%	0.25	1.2	0.72	1.9	0.36	0.29	Lognormal	0.44	0.44		0.72
Silver	ug/g	65	37	57%	0.018	0.80	0.021	1.1	0.16	0.21	Lognormal	0.73	0.73		0.32
Sodium	ug/g	65	57	88%	39	60	173	738	346.14	152	Lognormal	942	738.00	#	692.29
Thallium	ug/g	56	56	100%	- -	- -	0.012	0.22	0.06	0.047	Lognormal	0.098	0.10		0.13
Vanadium	ug/g	65	65	100%	- -	- -	2.6	67	20.44	13	Lognormal	34	33.66		40.87
Zinc	ug/g	65	58	89%	5.3	6.9	6.0	111	26.37	24	Lognormal	56	55.67		52.74

[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.

RESPONSE TO COMMENTS

DRAFT SITE INVESTIGATION REPORT AND DECISION DOCUMENT FOR THE SMALL WEAPONS STORAGE AND CLEANING COMPOUND BUILDING 1378, PARCEL 174(7) FORT McCLELLAN, ALABAMA RESPONSE TO COMMENTS BY THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

General Comments

Comment 1: **ADEM is in general agreement with the conclusions and recommendations for the Draft Site Investigation Report for the Small Weapons Storage and Cleaning Compound Building 1378, Parcel 174(7).**

Response: Comment noted.

Comment 2: **Based on the analytical results from samples collected during the Site Investigation, it appears that operations at the site have had minimal impact on the environment, and the potential threat to human and ecological receptors from the site is low.**

Response: Comment noted.

Specific Comments

No Comments

DRAFT DECISION DOCUMENT

General Comments

Comment 1: **ADEM is in general agreement with the conclusions and recommendations for the Draft Decision Document for the Small Weapons Storage and Cleaning Compound Building 1378, Parcel 174(7).**

Response: Comment noted.

Comment 2: **Based on the analytical results from samples collected during the Site Investigation, it appears that operations at the site have had minimal impact on the environment, and the potential threat to human and ecological receptors from the site is low.**

Response: Comment noted.

Specific Comments

No Comments

DRAFT SITE INVESTIGATION REPORT
AND DECISION DOCUMENT FOR THE SMALL WEAPONS STORAGE AND CLEANING COMPOUND BUILDING 1378, PARCEL 174(7)
FORT McCLELLAN, ALABAMA
RESPONSE TO C0OMMENTS BY
ENVIRONMENTAL PROTECTION AGENCY REGION 4

(via email)

DRAFT SITE INVESTIGATION REPORT

General Technical Comments

Comment 1: **The Draft SI is well organized and well written. An appropriate number of samples have been collected from logical locations. The great majority of soil and groundwater sample results for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) were below background concentrations, site-specific screening levels (SSSLs), and ecological screening values (ESVs). However, the majority of the samples analyzed exceed either background concentrations, SSSLs, or ESVs for metals concentrations, however, the elevated levels of the metals in the soils may be naturally occurring. A 1998 Final Background Metals Survey Report conducted by Science Applications International Corporation (SAIC) for Fort McClellan, Alabama, calculated background concentrations for metals in soils that are often higher than the SSSLs. On this basis, the information presented in the Draft SI Report supports the No Further Action recommended for this site.**

Response: Comment noted.

Comment 2: **The blank contamination noted for six compounds indicates a need to pay close attention to the sampling techniques used during sampling efforts. Perhaps more importantly, laboratory blank contamination can also be an indication of poor laboratory procedures.**

Response: Comment noted.

Specific Technical Comments

Comment 1: **Page ES-2, First Paragraph, Lines 2-3. The text states "Four metals (arsenic, iron, selenium, and zinc) were detected in site media at concentrations exceeding ESVs and the respective background concentration." However, according to the data presented on Table 5-1, Page 2, Sample Number KU0005, silver was also detected in site media at concentrations exceeding ESVs and the respective background**

concentration which makes a total of five metals detected. The text should be corrected.

Response: Agree. The text will be revised as noted.

Comment 2: **Page ES-2, First Paragraph, Lines 2-4. The text states that four of the metals were detected in site media at concentrations exceeding ESVs and the respective background concentration. However, the text also states that the concentration of the metals were within the background values. It is inconsistent and not possible that the concentrations are within background values and exceed background values. The discrepancy should be corrected.**

Response: The background concentration given for each metal is two times (2X) the arithmetic mean of the background concentration given in Science Applications International Corporation (SAIC) *Final Background Metals Survey Report, Fort McClellan, Alabama*, issued in July 1998. The range of background values refers to the minimum and maximum concentrations detected in the background metals survey. Therefore, it is possible that a detected value for a metal exceeds that metal's respective background concentration, but does not exceed the range of background values as determined by SAIC.

Comment 3: **Appendix A, Sample Collection Log, Sample Number KU3004. Although a required minimum total of six gallons was purged from monitoring well number PPMP-174-GP04 prior to groundwater sampling on February 24, 1999, the dissolved oxygen content had not stabilized. Samples should be collected when the dissolved oxygen content and other parameters have stabilized within 10 percent. The discrepancy should be explained.**

Response: Agreed. The dissolved oxygen content had not stabilized during the purging of PPMP-174-GP04. However, the majority of the monitored field parameters had met stabilization criteria. In the future IT will attempt to collect groundwater samples only after all parameters have met stabilization criteria.

Comment 4: **Appendix A, Chain-of-Custody Records, Sample Number KU0007. The chain-of- custody form does not have the required "received by" signature and date and time received. The discrepancy should be explained.**

Response: KU0007 was a field split sample sent to the USACE-SAD laboratory. A copy of the completed COC was not forwarded to IT.

Comment 5: **Appendix F, Page 13, Table, Samples KU0005, KU0006, and KU0007. The table lists detected concentrations for an original sample, field duplicate, and field split. The field split sample concentration for**

sodium is almost 1 order of magnitude greater than that of the original sample or field duplicate. In addition, several of the field split sample concentrations are either half the concentration of, or twice the concentration of, the field duplicate concentrations. These discrepancies should be explained.

Response: The referenced table and text were reviewed. The concluding paragraph (Page 13, Lines 5-7) addresses which metals exceeded the RPD limit (arsenic, magnesium, sodium, and vanadium) and attributes the difference to a lack of homogeneity in soils. Metals analyses of soil samples are subject to variability due to homogeneity of the matrix and RPDs in some cases of +/- 50% are not uncommon. As for the sodium RPD specifically, precision measurements based on values that are at or near the reporting limit of the method (as indicated by boldface type, 65.5 ug/kg - KU0005) may not be representative of actual method precision due to the inherent quantification biases present at such low concentrations. It should be noted that sodium is considered a natural, nutrient metal and as such does not have a corresponding human-health SSSL.

General Risk Assessment Comments

Comment 1: **Many of the metals in the site media were eliminated from consideration because they fell within the range of background values. Comparison to a range of background values is not generally a conservative approach to use in eliminating contaminants that exceed screening criteria from further consideration. A detailed "weight-of-evidence" discussion is needed in the text if the metals exceeding screening criteria are to be dropped from further consideration. Preliminary Risk Evaluation calculations may also be useful in determining the potential future risks associated with metal concentrations in groundwater.**

Response: The "range of background values" refers to the minimum and maximum concentrations of metals detected in the background metals survey. Based on discussions with EPA during the August 2000 BCT meeting, comparison to the range of background is not unreasonable in determining metals of concern.

Specific Risk Assessment Comments

Comment 1: **Page 1-1, Section 1.0. The text states that four surface soil samples, four subsurface soil samples, two groundwater samples, two surface water samples, and two sediment samples were collected for the SI. The text does not discuss the depositional soil sample that was also collected for the SI. This information should be included in the text of this section.**

Response: Agree. The text will be revised as noted.

Comment 2: **Page 1-1, Section 1.1. Section 1.1 provides a project description for the Small Weapons Storage and Cleaning Compound site. It is stated in the third paragraph of Section 1.1, that the SI included fieldwork to collect four soil samples, four subsurface soil samples, two groundwater samples, two surface water samples, and two sediment samples. One depositional soil sample was also collected at this site but is not mentioned in this section. This minor editorial error should be addressed.**

Response: Agree. The text will be revised as noted.

Comment 3: **Page 6-1, Section 6.0. The text states that the concentrations of aluminum and iron exceeded SSSLs and their background levels in groundwater. However, according to section 5.3 and Table 5.3, it is iron and manganese (not aluminum) that exceeded the SSSLs and background levels in this media. Therefore, the text should be changed accordingly.**

Response: Agree. The text will be revised as noted.

DRAFT DECISION DOCUMENT

General Technical Comments

Comment 1: **The Draft DD is well organized and well written. An appropriate number of samples have been collected from logical locations. The great majority of soil and groundwater sample results for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) were below background concentrations, site-specific screening levels (SSSLs), and ecological screening values (ESVs). However, the majority of the samples analyzed exceed either background concentrations, SSSLs, or ESVs for metals concentrations. However, the elevated levels of the metals in the soils may be naturally occurring. A 1998 Final Background Metals Survey Report conducted by Science Applications International Corporation (SAIC) for Fort McClellan, Alabama, calculated background concentrations for metals in soils that are often higher than the SSSLs. On this basis, the information presented in the Draft DD supports the No Further Action recommended for this site. However, the following comments should be addressed.**

Response: Comment noted.

Specific Technical Comments

Comment 1: **Page 4, Second Column, Second Paragraph, First Sentence. The text states "Four metals (arsenic, iron, selenium, and zinc) were detected in site media at concentrations exceeding ESVs and the respective background concentration." However, silver was also detected in site media at concentrations exceeding ESVs and the respective background concentration which makes a total of five metals detected. The text should be corrected.**

Response: The text will be revised as noted.

Specific Risk Assessment Comments

Comment 1: **Page 4, Second Paragraph: The text states that the concentrations of aluminum and iron exceeded SSSLs and their background levels in groundwater. However, according to section 5.3 and Table 5.3 of the SI report, it is iron and manganese (not aluminum) that exceeded the SSSLs and background levels in this media. Therefore, the text should be changed accordingly.**

Response: The text will be revised as noted.

DRAFT SITE INVESTIGATION REPORT AND DECISION DOCUMENT FOR THE SMALL WEAPONS STORAGE AND CLEANING COMPOUND BUILDING 1378, PARCEL 174(7) FORT McCLELLAN, ALABAMA RESPONSE TO COMMENTS BY U.S. ARMY CORPS OF ENGINEERS MOBILE DISTRICT

COMMENTS ON DRAFT SITE INVESTIGATION REPORT

Comment 1: **Page 1-3, Lines 5-7. This sentence seems to indicate that the site was not used for weapons storage. Does this mean that weapons were brought from another site for cleaning here?**

Response: According to the EBS (ESE, 1998) weapons were cleaned and stored at the site.

COMMENTS ON DRAFT DECISION DOCUMENT

Comment 1: **Page 3, middle column, last paragraph. Change "...present at the site, concentrations..." to "...present at the site at concentrations...".**

Response: The text will be revised as indicated.

Comment 2: **Page 3, third column, first paragraph. Change "dispositional " to "depositional" in the fifth line.**

Response: The text will be revised as indicated.

End of Comments

DRAFT SITE INVESTIGATION REPORT
AND DECISION DOCUMENT FOR THE SMALL WEAPONS STORAGE AND CLEANING COMPOUND BUILDING 1378, PARCEL 174(7)
FORT McCLELLAN, ALABAMA
RESPONSE TO COMMENTS BY FORT McCLELLAN

COMMENTS ON DRAFT SITE INVESTIGATION REPORT

Comment 1: **Page ES-1, line 31: Comment - Change "aluminum" to "manganese". Rationale - The information in Table 5-3 and paragraph 5.3 indicates that concentrations of manganese exceeded SSSLs and the respective background concentration but aluminum did not.**

Response: Agree. The text will be revised as noted.

Comment 2: **Page ES-2, lines 2-4: Comment - Change "Four" to "Five" and insert ",silver" after "selenium," in line 2 and reword the sentence on lines 3-4 to indicate that of the five metals detected in site media at concentrations exceeding ESVs and the respective background concentration, one of them (silver) exceeded the range of background values. Rationale - The information in Table 5-1 and paragraph 5.1 indicates that five metals (arsenic, iron, selenium, silver, and zinc) were detected in site media at concentrations exceeding ESVs and the respective background concentrations with the silver concentration at one location (PPMP-174-GP03) also exceeding the range of background values.**

Response: Agree. The text will be revised as noted.

Comment 3: **Page 1-1, line 32: Comment - Insert "one depositional soil sample," after the first "samples," in the line. Rationale - One depositional soil sample was also included in the SI fieldwork.**

Response: Agree. The text will be revised as noted.

Comment 4: **Page 1-2, line 12: Comment - Change "aramatic" to "aromatic". Rationale - The word is misspelled.**

Response: Agree. The text will be revised as noted.

Comment 5: **Table 3-1, Sampling Locations and Rationale: Comment - Change ",subsurface soil, and groundwater" to "and subsurface soils" in**

the site sampling rationale for PPMP-174-GP01. Rationale - Groundwater samples were not taken at PPMP-174-GP01.

Response: Agree. The table will be revised as noted.

Comment 6: **Page 3-5, line 8: Comment - Change "Table 3-5" to "Table 3-7". Rationale - The analytical suite for surface water is in Table 3-7 instead of Table 3-5.**

Response: Agree. The text will be revised as noted.

Comment 7: **Page 3-5, line 23: Comment - Change "Table 3-2" to "Table 3-7". Rationale - The analytical suite for sediment is in Table 3-7 instead of Table 3-2.**

Response: Agree. The text will be revised as noted.

Comment 8: **Page 3-8, line 12: Comment - Change "Appendix G" to "Appendix F". Rationale - The data validation summary report is in Appendix F instead of Appendix G (Variance/Nonconformance Reports).**

Response: Agree. The text will be revised as noted.

Comment 9: **Page 5-4, line 11: Comment - Delete "of". Rationale - The word needs to be deleted to make the sentence grammatically correct.**

Response: Agree. The text will be revised as noted.

Comment 10: **Page 5-6, paragraph 5.5: Comment - Add information about TOC and grain size analytical results. Rationale - Table 3-7 indicates that TOC and grain size were included in the analytical suite for sediment but no information is provided on them.**

Response: TOC and grain information will be included in the report..

Comment 11: **Page 6-1, line 29: Comment - Change "aluminum" to "manganese". Rationale - The information in Table 5-3 and paragraph 5.3 indicates that concentrations of manganese exceeded SSSLs and the respective background concentration but aluminum did not.**

Response: Agree. The text will be revised as noted.

Comment 12: **Page 6-1, line 35 and page 6-2, lines 1-2: Comment - Change "Four" to "Five" and insert ",silver" after "selenium," in line 35 of**

page 6-1 and reword the sentence on lines 1-2 of page 6-2 to indicate that of the five metals detected in site media at concentrations exceeding ESVs and the respective background concentration, one of them (silver) exceeded the range of background values. Rationale - The information in Table 5-1 and paragraph 5.1 indicates that five metals (arsenic, iron, selenium, silver, and zinc) were detected in site media at concentrations exceeding ESVs and the respective background concentrations with the silver concentration at one location (PPMP-174-GP03) also exceeding the range of background values.

Response: Agree. The text will be revised as noted.

Comment 13: **Appendix A, Sample Collection Logs: Comment - Fill out incomplete sections of the sample collection logs. Rationale - Many of the sample collection logs have sections (Sketch Location, Logged By/Date and Reviewed By/Date) that have not been completed.**

Response: IT will ensure that all paperwork is filled out properly in the future.

COMMENTS ON DRAFT DECISION DOCUMENT

Comment 1: **Page 3, Site Investigation, first column, line 3: Comment - Remove the comma after site and insert "in". Rationale - The change is needed to make the sentence grammatically correct.**

Response: The text will be revised.

Comment 2: **Page 3, Site Investigation, second column, line 5: Comment - Change "dispositional" to "depositional". Rationale - The word is misspelled.**

Response: The text will be revised as noted.

Comment 3: **Page 4, Site Investigation, first column, line 47: Comment - Change "aluminum" to "manganese". Rationale - The information in Table 5-3 and paragraph 5.3 of the Site Investigation Report indicates that concentrations of manganese exceeded SSSLs and the respective background concentration but aluminum did not.**

Response: The text will be revised as noted.

Comment 4: **Page 4, Site Investigation, second column, lines 14-23: Comment - Change "Four" to "Five" in line 14, insert ",silver" after**

"selenium," in line 15 and reword the sentence on lines 19-23 to indicate that of the five metals detected in site media at concentrations exceeding ESVs and the respective background concentration, one of them (silver) exceeded the range of background values. Rationale - The information in Table 5-1 and paragraph 5.1 of the Site Investigation Report indicates that five metals (arsenic, iron, selenium, silver, and zinc) were detected in site media at concentrations exceeding ESVs and the respective background concentrations with the silver concentration at one location (PPMP-174-GP03) also exceeding the range of background values.

Response: The text will be revised as noted.

Comment 5: **Page 7, Signature Blocks: Comment - Change the signature block for Mr. Ryan to Glynn D. Ryan, Site Manager. Rationale - The correct title for Mr. Ryan is Site Manager.**

Response: The signature block will be revised to indicate the correct title.