5/3/13

ENTERED

DEPARTMENT OF THE AIR FORCE
27TH SPECIAL OPERATIONS MISSION SUPPORT GROUP (AFSOC)
CANNON AIR FORCE BASE NEW MEXICO

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Mr. Daniel Comeau
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New Mexico Environment Department
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Dear Mr. Comeau

Please see attachment for the *Final Corrective Action Complete Proposals - Eight Solid Waste Management Units (SWMU), Cannon AFB, New Mexico.* If you have any questions regarding this submittal, please contact Mr. Ronald Lancaster, Chief, Asset Management Flight at (575) 784-1146 or Dr. Mokhtar Gaballa, Restoration Program Manager at (575) 784-0491.

Sincerely

DAVID C. PIECH, Colonel, USAF
Commander

Attachment:
Final Corrective Action Complete Proposals, Cannon Air Force Base, New Mexico

cc:
Environmental Protection Agency, Region VI, Ms. Wendy Jacques w/o Attachment

Corrective Action Complete Proposals
Eight Solid Waste Management Units
(SWMUs 31, 34, 78, 85, 95, 110, 111, and 112)

CANNON AIR FORCE BASE
NEW MEXICO

April 2013

Air Force Special
Operations Command

27th Special
Operations Mission
Support Group

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List of Acronyms

AFB	Air Force Base
AGE	Aerospace Ground Equipment
AOC	Area of Concern
bgs	below ground surface
BRA	Baseline Risk Assessment
CAC	Corrective Action Complete
CMS	Corrective Measures Study
COC	chemical(s) of concern
COPC	chemical(s) of potential concern
COPEC	chemical(s) of potential ecological concern
CSM	conceptual site model
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DRO	diesel range organic
EP	extraction procedure
EPA	United States Environmental Protection Agency
Foster Wheeler	Foster Wheeler Environmental, Inc.
ft	feet/foot
FTA	Fire Training Area
GRO	gasoline range organic
Harza	Harza Environmental Services
HELP	Hydraulic Evaluation of Landfill Performance
HSWA	Hazardous and Solid Waste Amendments
ICP	Inductively Coupled Plasma
IRP	Installation Restoration Program
JP-4	jet propellant grade 4
mg/kg	milligram per kilogram
msl	mean sea level
MULTIMED	Multimedia Exposure Assessment
NMED	New Mexico Environment Department

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No.	number
OWS	oil/water separator
PAH	polynuclear aromatic hydrocarbon
PID	photoionization detector
ppm	parts per million
Radian	Radian Corporation, LLC
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RI	Remedial Investigation
SCEM	site conceptual exposure model
sq	square
SSL	soil screening level
SVOC	semivolatile organic compound
SWMU	Solid Waste Management Unit
TAL	target analyte list
TN&A	T N & Associates, Inc.
TPH	total petroleum hydrocarbon
TOC	total organic carbon
TRPH	total recoverable petroleum hydrocarbon
TtECH	Tetra Tech EC, Inc
URS	URS Group, Inc.
VOC	volatile organic compound
Walk-Haydel	Walk Haydel & Associates, Inc.
Woodward-Clyde	Woodward-Clyde Consultants, Inc.
XRF	x– ray fluorescence

CORRECTIVE ACTION COMPLETE PROPOSALS

Introduction

The United States Air Force and Cannon Air Force Base (AFB) (Permittee) is requesting a change in status from Corrective Action Required to Corrective Action Complete (CAC) for eight Solid Waste Management Units (SWMUs) from the New Mexico Environment Department (NMED) in accordance with New Mexico Hazardous Waste Act (Section 74-4-1 et seq., New Mexico Statutes Annotated 1978, as amended, 1992) and the New Mexico Hazardous Waste Regulations 20.4.1 New Mexico Administrative Code. These eight SWMUs are listed in the Permittee's Resource Conservation and Recovery Act (RCRA) Part B Permit (October 2003), pursuant to Title 40 Code of Federal Regulations 270.42(c) of the Hazardous and Solid Waste Amendments of 1984.

If the change in status is approved, the Permittee requests NMED to initiate a Class 3 Permit Modification to the Cannon AFB RCRA Permit (Permit) (NMED, 2003). The modification would adjust the content of Tables 1 and 2 in Attachment I of the Permit (NMED, 2003). Table 1 lists the SWMUs and Areas of Concern (AOCs) Requiring Corrective Action; sites for which corrective action may be necessary to characterize and/or remediate past releases of hazardous wastes or hazardous constituents. Table 2 lists SWMUs and AOCs Not Currently Requiring Corrective Action (The eight SWMUs are shown on Figure I-1, Attachment I).

The proposed Class 3 Permit Modification would grant CAC with Controls for six SWMUs. The following SWMUs would move from Table 1 to Table 2:

- SWMU 34 – Aerospace Ground Equipment (AGE) Drainage Ditch
- SWMU 78 – Fire Training Area (FTA) No. 1
- SWMU 85 – Stormwater Collection Point
- SWMU 95 – Northeast Stormwater Drainage Area
- SWMU 111 – Unlined Pit at FTA No. 4
- SWMU 112 – Oil/Water Separator (OWS) No. 2336 at FTA No. 4

The proposed Class 3 Permit Modification would grant CAC without Controls for two SWMUs. The following SWMUs would move from Table 1 to Table 2:

- SWMU 31 – AGE Maintenance Shop Pad
- SWMU 110 – Underground Waste Oil Tank No. 2336 at FTA No. 4

The eight SWMUs addressed by this document are listed in the following table:

Section C Sub-Section	SWMU/AOC	Description
1	SWMU 31/MY-C031	AGE Maintenance Shop Pad
2	SWMU 34/SD-15	AGE Drainage Ditch
3	SWMU 78/FT-06	FTA No. 1
4	SWMU 85/SD-12	Stormwater Collection Point
5	SWMU 95/SD-20	Northeast Stormwater Drainage Area
6	SWMU 110/FT-C110	Underground Waste Oil Tank No. 2336 at FTA No. 4
7	SWMU 111/FT-C111	Unlined Pit at FTA No. 4
8	SWMU 112/FT-C112	OWS No. 2336 at FTA No. 4

AGE = Aerospace ground equipment

AOC = Area of Concern

FTA = Fire Training Area

No. = Number

OWS = Oil/water separator

SWMU = Solid Waste Management Unit

A. Facility Descriptions

A.1 Site History and Geography

Cannon AFB is located in Curry County, New Mexico, approximately 7 miles west of the city of Clovis (Figure I-1, Attachment I). Cannon AFB occupies 4,320 acres, primarily consisting of the airfield and associated operations, maintenance, and support facilities that are located northwest of the airfield. Housing facilities are located in the former northwestern portion of the Base, west of U.S. Highway 277 and north of U.S. Highway 60. Additional Base support facilities, such as the munitions storage area and current fire department training area, are located south and east of the airfield.

Cannon AFB is situated in the Southern High Plains Physiographic Province in the Llano Estacado subprovince. The Llano Estacado is a nearly flat plain sloping gently (10 to 15 ft [ft] per mile) to the east and southeast. Elevations in the eastern New Mexico portion of the Llano Estacado exceed 4,000 ft above mean sea level (msl). In the vicinity of Cannon AFB, elevations range from 4,250 ft to 4,350 ft above msl.

A.2 SWMU 31

SWMU 31, AGE Maintenance Shop Pad, is located immediately adjacent and southeast of Building 186, the former AGE maintenance facility, and is shown in Figure I-2 (Attachment I). The AGE Maintenance Shop Pad was active from 1971 until 2008, when the AGE maintenance operations moved to its current location northeast of Building 186. Building 186 is now vacant. The maintenance pad is an open concrete area adjacent to the southeastern side of the former AGE maintenance shop in Building 186 (Figure I-3, Attachment I). The maintenance pad is approximately 60 to 70 ft wide and 240 to 280 ft long. An open wash pad occupied a 45-square-ft area beyond the southeastern edge of the maintenance pad. SWMU 31 is also adjacent to SWMU 34, the AGE Drainage Ditch (Figure I-2, Attachment I), which is located southeast of the maintenance pad and conveys runoff to the northeast. Maintenance on aeronautical ground equipment was formerly performed in Building 186 and on the southern and eastern sections of the pad. The open wash pad was frequently used to wash and clean support vehicles and equipment. The wash pad was drained separately to an adjacent OWS, which was removed and replaced with a new OWS in February 1997. A portion of the drainage from the maintenance pad reportedly flowed into a sand trap at the northwestern corner of the wash pad and emptied into the OWS (Woodward –Clyde Consultants, Inc. [Woodward-Clyde], 1995).

A.3 SWMU 34

SWMU 34, the AGE Drainage Ditch, originates on the flightline side of the AGE Maintenance Shop Pad Building 186 and runs parallel to Buildings 191 and 190 in a northeast direction (Figure I-2, Attachment I). The ditch terminates at a culvert inlet near Argentina Avenue. Stormwater runoff from the AGE Drainage Ditch flows under Argentina Avenue via the culvert to a second drainage ditch that directs the water to the Northeast Stormwater Drainage Area (SWMU 95). SWMU 34 is also adjacent to SWMU 31, the AGE Maintenance Shop Pad.

A.4 SWMU 78

SWMU 78, Fire Training Area Number (No.) 1, is located in the northeast corner of Cannon AFB, south of the railroad tracks and northeast of Perimeter Road. The training area is an unlined, circular surface approximately 100 ft in diameter. Between 1959 and 1968, the site was used twice monthly when approximately 300 gallons of waste oils, solvents, and fuels were poured on the ground surface and burned.

A.5 SWMU 85

SWMU 85, Stormwater Collection Point, is a naturally occurring 9-acre playa lake located in the southwestern part of Cannon AFB (Figure I-4, Attachment I). Since 1943, stormwater runoff from the flightline has collected in this lake. Stormwater runoff flows toward the center of the site where it either evaporates or percolates into the soil.

A.6 SWMU 95

SWMU 95, Northeast Stormwater Drainage Area, is a shallow, open ditch that begins near the end of the northeastern runway, Runway 4/22, and extends to the southeast under an access road before emptying into an open field (Figure I-5, Attachment I). The northwest end of the ditch is marked by a concrete culvert and is surrounded by heavy vegetation. The drainage ditch is approximately 40 ft wide and runs for approximately 550 ft until it reaches the field.

A.7 SWMUs 110, 111, and 112

SWMUs 109, 110, 111, and 112 are supporting aspects for FTA No. 4 (Figure I-6, Attachment I). SWMU 109 is not included in this CAC. In 1974, the site was activated as a fire training area. Commingled waste oils, solvents, and recovered jet propellant grade 4 (JP-4) were burned during fire training exercises conducted from 1974 to 1975. An underground waste oil tank (SWMU 110) was installed in 1975, and from 1975 to 1995, only recovered JP-4 was burned during exercises. After 1995, the SWMU was no longer used as a fire training area (Harza Environmental Services [Harza], 1997). Prior to 1985, runoff generated during fire training exercises at SWMU 109 collected in the Unlined Pit (SWMU 111), which was backfilled in 1985 prior to the installation of the OWS (SWMU 112). The Unlined Pit was filled with gravel and included internal drainage features that conveyed excess fuel and water to the OWS (SWMU 112) located in the northeastern part of the site. These drainage features included an underground pipe running from the pit to the OWS. The separator and leachfield were removed in 1997; however, the underground pipe is still in place (Harza, 1997). A mock airplane was formerly located in the center of the pit and was used for fire training exercises.

B. History of Investigation

The United States Environmental Protection Agency (EPA) issued the Hazardous and Solid Waste Amendments (HSWA) Module IV to Cannon AFB's RCRA Operating Permit effective December 17, 1989. The HSWA module required investigation of approximately 130 environmental restoration sites, referred to as "SWMUs" in the permit. In January 1996, NMED received authorization for corrective action under the HSWA and became the administrative authority for this action.

Section C of this document describes the location and history of each SWMU, presents a summary of relevant information from previous site investigations, and provides the basis for determination for each of the SWMU proposed for CAC with Controls or CAC without Controls. Detailed descriptions of the investigative results for each SWMU appear in the original investigative reports and/or administrative records. In some cases, reports and original

data were not available for investigations conducted prior to 1996. The following documents were not available for this CAC proposal document:

- Phase I Installation Restoration Program (IRP) Records Search (CH2M Hill, 1983)
- IRP Remedial Investigation (Radian, 1985)
- Phase II IRP Report (Radian, 1986)
- Remedial Investigation (Walk-Hydel, 1988)
- IRP Remedial Investigation and Human Health Risk Assessment (Walk-Hydel, 1990)
- Remedial Investigation Report for 18 SWMUs (Woodward-Clyde, 1992)

For all documents that could not be located in the administrative record, data were based on information presented in reports that referenced the original document. References for sources cited in this document are provided in **Section D**.

C. SWMU Descriptions

The following sections describe the location, history, and land use conditions for each SWMU. A summary of relevant information from previous investigations and a basis for CAC determination for the eight sites are also presented in this section. Historical analytical data has also been compared with current NMED residential and industrial soil screening levels (SSLs), updated in June 2012 (NMED, 2012). These comparisons can be found in the text, as well as in Tables II-1 through II-12 in Attachment II. Historical analytical results are also compared with the screening levels that were used at the time of the original study, when possible. A site map showing all 8 SWMUs is presented as Figure I-1 in Attachment I

C.1 SWMU 31—AGE Maintenance Shop Pad

Location – SWMU 31

SWMU 31 is located immediately adjacent and southeast of Building 186, the former AGE maintenance facility (Figure I-2, Attachment I).

History/Current and Anticipated Future Land Use – SWMU 31

The AGE Maintenance Shop Pad was active from 1971 until 2008 when the AGE maintenance operations moved to its current location northeast of Building 186, which is now vacant. The maintenance pad is an open, concrete area adjacent to the southeastern side of the former AGE maintenance shop in Building 186. The maintenance pad is approximately 60 to 70 ft wide and 240 to 280 ft long. An open wash pad occupies a 45-square-ft area beyond the southeastern edge of the maintenance pad. The AGE Drainage Ditch (SWMU 34) is located southeast of the maintenance pad and conveys runoff to the northeast.

Maintenance on aeronautical ground equipment was formerly performed in Building 186 and on the southern and eastern sections of the pad. The open wash pad was frequently used to wash and clean support vehicles and equipment. The wash pad was drained separately to an adjacent OWS. The original OWS was removed and replaced with a new OWS in February 1997. A portion of the drainage from the maintenance pad reportedly flowed into a sand trap at the northwestern corner of the wash pad and emptied into the OWS. Future land use will continue to be industrial in nature.

Evaluation of Relevant Information – SWMU 31

1993 Phase I RCRA Facility Investigation

The Phase I RCRA Facility Investigation (RFI) was conducted in 1993 to investigate potential impacts to soil associated with activities performed at the AGE Maintenance Shop Pad (Woodward-Clyde, 1994). Surface and subsurface soil samples were collected from four 10-ft soil borings drilled in areas where wash-down water from the maintenance pad enters the AGE Drainage Ditch and along expansion joints or cracks in the pad. The Phase I RFI soil boring locations are shown in Figure I-3 (Attachment I).

At soil borings 03101 and 03102, samples were collected during borehole advancement from depth intervals of 0 to 0.5 ft, 1.5 to 3.5 ft, 4 to 6 ft, and 8 to 10 ft. At soil borings 03103 and 03104 samples were collected from depth intervals of 0.5 to 2 ft, 2 to 4 ft, 4 to 6 ft, and 8 to 10 ft.

Phase I RFI sample analyses included volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), target analyte list (TAL) metals, and total recoverable petroleum hydrocarbons (TRPH). SVOCs were only analyzed in surface soil samples and at selected depth intervals to support risk assessment. Surface samples were collected in areas of soil cover from 0.2 to 0.5 ft below ground surface (bgs) to provide data for risk characterization under a potential worst-case exposure scenario involving SVOC contamination, if present.

Analytical results for samples collected during the Phase I RFI indicated that tetrachloroethene was detected at low concentrations in surface soil in soil boring 03103. Polynuclear aromatic hydrocarbons (PAHs), including anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, carbazole, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, phenanthrene, and pyrene, were detected in surface samples in soil borings 03101, 03102, and 03103 and at 3.5 ft bgs in soil boring 03102. Antimony, barium, cadmium, chromium, cobalt, copper, lead, nickel, selenium, and zinc were detected at concentrations exceeding background values in surface and subsurface soil samples to a depth of 10 ft bgs in one or more of the borings (Woodward-Clyde, 1994). TRPH was detected at concentrations ranging from 81 milligrams per kilogram (mg/kg) to 4,070 mg/kg in four samples at depths varying from 0 to 2 ft bgs. Table II-1, Attachment II summarizes the soil analytical results from the samples collected during the Phase I RFI compared with 2012 NMED residential and industrial SSLs (NMED, 2012).

The results of the Phase I RFI indicated of the distribution of soil contamination indicated that asphalt present across the site may have been the source of PAHs detected in the soil samples. The Phase I concluded that imported fill material present beneath the asphalt and concrete across

the site may account for the elevated levels of metals (TetraTech EC, Inc. [TtECH], 2010). Barium, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, cadmium, chromium, chrysene, indeno(1,2,3-cd)pyrene, lead, and TRPH exceeded the risk screening criteria available at the time of the Phase I RFI (Woodward-Clyde, 1994). TtECH recommended that a Baseline Risk Assessment (BRA) be completed on SWMU 31.

1994 Phase II RFI

The Phase II RFI was conducted in 1994 to assess and define the extent of soil contamination at SWMU 31. Three soil borings were each drilled to a depth of 10 ft, and soil samples were collected at the maintenance pad to further assess the lateral and vertical presence and extent of site-related soil contaminants at the 10-ft depth interval (Woodward-Clyde, 1995). Samples were analyzed for VOCs, SVOCs, TAL metals, and TRPH. The Phase II RFI soil boring locations are shown in Figure I-3, Attachment I.

Other than acetone, which was determined to be associated with laboratory contamination, the only VOC reported in near-surface soil samples was total xylenes at a concentration of 0.13 mg/kg. A comparison of this value with the current NMED (2012) residential SSL of 814 mg/kg shows that this value is far below current NMED guidelines. Several SVOC compounds were reported as detections in all three near-surface samples. SVOCs detected above 2012 NMED residential SSLs in near-surface soil samples included benzo(a)anthracene, benzo(a)pyrene, and dibenzo(a,h)anthracene. Petroleum hydrocarbons were detected in near-surface soil samples from soil borings 3105, 3106, and 3107, respectively, with an exceedance at soil boring 3107 (2,500 mg/kg). Table II-2 Attachment II summarizes the soil analytical results from the samples collected during the Phase II RFI compared with current residential and industrial NMED SSLs (2012). The Phase II RFI concluded that the asphalt present at the site was likely the source of PAHs detected in soil (Woodward-Clyde, 1995). The Phase II RFI concluded that it is likely that imported fill material present beneath the asphalt and concrete across the site may account for the elevated levels of metals.

Other than acetone, which was qualified as a nondetect after it was determined to be laboratory contamination, the only VOC reported in subsurface soil samples was toluene at concentrations up to 0.0055 mg/kg (estimated) in soil boring 3107. This value does not exceed the current 2012 residential NMED SSL of (5,270 mg/kg). Only one SVOC compound, fluoranthene, was detected in subsurface samples as an isolated occurrence in soil boring 3107 at a concentration of 0.120 mg/kg (estimated), which again, does not exceed the 2012 residential NMED SSL of (2,290 mg/kg). Petroleum hydrocarbons were not reported in any of the subsurface samples.

The maximum concentrations of cadmium, chromium, cobalt, copper, lead, manganese, nickel, and zinc detected in soil samples exceeded background upper tolerance levels at the time the Phase II RFI was conducted in 1994 (Woodward-Clyde, 1995).

The maximum detected concentrations of TRPH reported for Phase I and Phase II RFI soil samples were 4,070 mg/kg and 2,500 mg/kg, respectively. These concentrations exceeded the NMED total petroleum hydrocarbons (TPH) guideline for unknown oil at the time of the study in

1994, and exceed the current 2012 NMED residential SSL: they are both 1,000 mg/kg. The NMED action levels for benzene, toluene, ethylbenzene, and total xylenes (500 mg/kg) and benzene (as a single compound) (10 mg/kg) were not exceeded during either investigation at the time of the original study in 1994.

1999 Voluntary Corrective Measure

In February 1999, a limited soil removal activity was conducted adjacent to soil boring 03101 (Figure I-7, Attachment I), where TRPH, lead, and chromium had been detected at concentrations exceeding background or action levels identified during the Phase I RFI at SWMU 31. Concentrations of benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, and lead exceeded the site-specific target levels in surface soil samples collected at this location during the Phase I RFI. A backhoe was used to remove soil from this location, which resulted in an excavated area that measured 10 ft by 5 ft and was 2 ft deep (Foster Wheeler Environmental, Inc. [Foster Wheeler], 1999) adjacent to soil boring 03101. Confirmation samples collected from the excavation indicated that contaminated soil had been removed. The excavation was backfilled with clean fill and revegetated with cultivated grass (Foster Wheeler, 1999).

2007 Corrective Measures Study

At the request of the NMED, Cannon AFB performed a Corrective Measures Study (CMS) to evaluate remedial alternatives for SWMU 31. The CMS included a human health risk assessment, ecological risk assessment, and vadose zone fate and transport modeling

2007 Human Health Risk Assessment

A human health risk evaluation was conducted to support the CMS using data collected during the Phase I and Phase II RFIs and the assessment protocol available at that time from the EPA (URS Group Inc. [URS Greiner Woodward-Clyde, 2007). The site conceptual exposure model (SCEM) developed for SWMU 31 included evaluation of the contaminant source areas, chemical release mechanisms, environmental transport media, potential human intake routes, and potential human receptors. The SCEM established for SWMU 31 identified complete exposure pathways that were then evaluated to determine potential human health risks. Evaluation of exposure pathways consisted of four necessary elements:

- A source and mechanism of chemical release to the environment
- An environmental transport medium for the released chemical (e.g., air, groundwater, or surface water)
- A point of potential human exposure to transported chemicals (e.g., a domestic drinking water well)
- A human intake mechanism (e.g., inhalation or ingestion) at the point of exposure

The primary contaminant source at SWMU 31 is waste fluids (e.g., fuels, oils, and solvents) that leaked or were spilled within the AGE Maintenance Shop Pad area, adjacent wash pad, and the surrounding surface soil (URS Greiner Woodward-Clyde, 2007).

Chemicals from the primary source may be transported away from the primary source areas, thus affecting other media that may in turn act as secondary sources. Mixing and infiltration of the wastes with the soil may be the primary chemical release mechanisms. Subsurface soil is an important secondary source of potential chemical release. Site-related chemicals in soil may infiltrate/percolate through the soil and be released to groundwater.

Other release mechanisms, such as direct contact (soil and dermal contact), surface runoff, wind erosion, or volatilization to the atmosphere, are also depicted in the SCEM. Transport by storm runoff is not considered a significant pathway for human exposure at SWMU 31 because runoff settles in the low spots located on the southeastern side of the SWMU, but is not transported off site.

Potential receptors at SWMU 31 include occupational receptors, hypothetical future construction workers, and hypothetical trespassers. SWMU 31 is located in the industrial area of the Base; therefore, residential development is not a likely future land use. Surface soil (upper 2 ft of soil column) and air emissions (particulate) from surface soil may provide exposures to occupational receptors and hypothetical trespassers. Surface soil, subsurface soil, and air emissions (volatile and particulate) may provide exposures to hypothetical future construction workers during excavation activities.

Groundwater is used for domestic purposes on and off base. However, potential groundwater exposures were not evaluated because fate and transport modeling indicate that groundwater will not be impacted.

In summary, the potentially complete human exposure pathways at SWMU 31 identified by the CMS in 2007 include occupational receptors, hypothetical construction workers, and hypothetical trespassers (URS Greiner Woodward-Clyde, 2007).

2007 Ecological Risk Evaluation

An ecological risk evaluation was conducted to support the CMS (URS Greiner Woodward-Clyde, 2007) using data collected during the Phase I and Phase II RFIs and the assessment protocol available at that time from the EPA. The initial step in ecological evaluation of SWMU 31 was to determine whether the site had an ecological community requiring assessment. SWMU 31 covers a limited area associated with the former AGE Maintenance Shop Pad at Building 186, and at the time of the risk evaluation, contained a very limited area of manicured grass to support ecological habitat. The limited size of the SWMU, combined with the limited ecological value of unpaved open areas, suggests that no ecological community was present and, at best, only a few individuals of even the smallest organisms were present. Based on conditions at the site at the time of the risk evaluation, SWMU 31 the ecological risk evaluation concluded to not contain any significant ecological component such that a formal ecological risk assessment would be warranted (URS Greiner Woodward-Clyde, 2007).

2007 Vadose Zone Fate and Transport Modeling

Using the mathematical models, Hydraulic Evaluation of Landfill Performance (HELP) and Multimedia Exposure Assessment (MULTIMED), a conceptual unsaturated (vadose) zone was developed for SWMU 31, in order to simulate the fate and transport of chemicals present in soil that posed a potential risk to human health. The HELP model was used to estimate a net infiltration rate through the vadose zone for input into MULTIMED. MULTIMED was then used to model contaminant migration through the vadose zone to the water table approximately 300 ft below SWMU 31. The results of the vadose zone fate and transport modeling for SWMU 31, assuming sorption, dispersion, and biodegradation occur, indicate that chemicals of potential concern (COPC) will not reach groundwater above tap water screening levels (URS Greiner Woodward-Clyde, 2007).

Based on the results of the evaluations of human health and ecological risk, along with the limited soil removal activity voluntarily conducted in 1999, No Action was the selected corrective measure alternative for SWMU 31 in the CMS (URS, 2007), based on the evaluation outlined below. The NMED approved the CMS in its March 26, 2008 letter.

Technical

- Performance—The alternative is effective at being protective of human health and the environment over extended periods of time. This was demonstrated through Tier I and Tier II human health and ecological risk evaluations, a baseline risk assessment, and fate and transport modeling.

- Reliability—The alternative does not require any operation or maintenance activities and has been proven to be effective for similar sites and conditions.

- Implementability—The alternative is easy to implement and will meet or exceed applicable standards.

- Safety—The alternative poses no threat to the safety of nearby workers.

Human Health

- The alternative was determined following the Risk-Based Concentration(s) Assumption process outlined in the CMS and followed the guidance available at the time, American Society for Testing and Materials (currently ASTM International) ASTM E1739-95, *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites*. The results of the Risk-Based Concentration(s) Assumption process included the following:

  – Maximum concentrations of most chemicals of concern (COCs) left in place were less than conservative Tier I EPA Region VI medium-specific screening levels and calculated Tier II site-specific target levels.

- Those COCs that exceeded site-specific target levels were only present in surface soil samples. The maximum concentrations of these chemicals were used in a baseline risk assessment that concluded there was no unacceptable risk; and soil containing these maximum concentrations was removed.

Environmental

- No valued ecological resources are present.

Cost

The alternative is protective of human health and the environment and at a lower cost than other corrective measure alternatives considered in the CMS.

2008 Voluntary Corrective Action

Based on the results of the previous site investigations, the CMS, and data evaluations, Cannon AFB performed a Voluntary Corrective Action at SWMU 31 as a proactive measure to address petroleum hydrocarbons in soil. Prior to implementation of the voluntary corrective action at SWMU 31, a limited field sampling program took place in February 2008 to delineate the extent of petroleum contamination in soil at locations where previous investigations indicated contamination and locations where it was expected that contamination could be present. (Bay West, Inc. and TtEC, 2008). Based on the 2008 sampling results, the Final Work Plan was developed (TtEC, 2009) and implemented. North Wind Inc. conducted field mobilization, soil characterization, excavation, confirmation sampling activities, off-site disposal, backfilling, and demobilization activities during 2009 and the first quarter of 2010 (TtEC, 2010).

For the first phase of the corrective action implementation in February 2008, 20 soil borings were drilled and sampled using direct-push technology across the wash pad area along a 20-ft grid, with additional step-outs to delineate the extent of contamination. Sample locations were based on the results of the Phase I and Phase II RFIs, and visible staining in the wash pad area was observed during a 2007 site visit (Figure I-7, Attachment I). Samples were collected to a depth of 15 ft and continued deeper if visible staining in the soil core persisted (Bay West, Inc. and TtEC, 2008). Samples were collected and analyzed for TPH- diesel range organics (DRO), TPH- gasoline range organics (GRO), and residual-range organics. Exceedance of the TPH guideline (NMED, 2012) for unknown oil (1,000 mg/kg) occurred at four soil boring locations (031SB01, 031SB06, 031SB07, and 031SB14) at a maximum depth of 3 ft bgs. Based on observations made regarding soil staining and headspace screening results, an area of approximately 3,000 square (sq) ft is recommended for excavation to a depth of 2 ft bgs (TtEC, 2010). It was also recommended that an additional 900 sq ft area be excavated to a depth of 4 ft bgs (TtEC, 2012).

After removal of the concrete wash pad, excavation was implemented using the work plan (TtEC, 2009) that was based on the results of the 2008 petroleum soil contamination delineation effort. Corrective action took place from February through September 2009 and included the following activities:

- Waste characterization sampling—Sampling results determined the petroleum-contaminated soil was not RCRA hazardous waste. The petroleum-contaminated soil was characterized as New Mexico "Special Waste" in accordance with New Mexico Administrative Code 20.9.3 and was suitable for disposal at a state-permitted landfill (TtEC, 2010).

- Excavation using a track excavator of approximately 340 cubic yards of petroleum-contaminated soil and 100 cubic yards of concrete debris from the area of SWMU 31 and the adjacent former wash pad.

- Off-site transportation and disposal of excavated soil and concrete debris.

- Confirmation sampling of the excavation sidewalls and floor (Figure I-7, Attachment I)—Samples were analyzed for TPH- DRO/ GRO. A comparison of the original results with today's guidelines indicates an exceedance (1,500 mg/kg) of the 2012 NMED residential direct exposure TPH guideline (1,000 mg/kg) for unknown oil in one sidewall (S07) sample, thus showing petroleum contamination still remained in localized areas within the excavation (Table II-3, Attachment II).

- Additional excavation to the east and north of approximately 61 cubic yards of contaminated soil and subsequent collection of five confirmation samples, samples S21 through S25. Results indicated there were no exceedances of the TPH guideline at the time, or the current 2012 residential guideline of 1,000-mg/kg (NMED, 2012). There were no visible signs of stained soil or elevated headspace screening results for soil remaining within the excavation floor or sidewalls. Analytical results for confirmation soil samples are provided in Table II-3, Attachment II.

- Excavation was completely backfilled using clean, crushed concrete from a source at Cannon AFB. The surface was graded to a slight mound to allow for settlement and to provide positive drainage. Both backfilling and compacting were performed using a wheel loader, followed by a vibratory roller.

- Site restoration—The site was restored by paving the area with asphalt per Cannon AFB specifications during the first quarter 2010.

Selected NMED Correspondence

In a letter from NMED to Cannon AFB dated March 29, 2010 (NMED, 2010a), the NMED states that the Risk Assessment performed for SWMU 31 only characterized risk for construction and industrial use, not for residential use. The NMED also stated that organic contaminants exceeding NMED SSLs for the residential scenario [benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-pyrene)] and metals in concentrations exceeding background (aluminum, arsenic, barium, cadmium, calcium, copper, iron, lead, magnesium, manganese, sodium, and zinc) were detected in samples obtained from outside the limits of the remedial excavation. The NMED stated that the 95% upper confidence level for TPH should be calculated in order to justify CAC without controls for SWMU 31.

In an additional letter from NMED to Cannon AFB dated June 22, 2010 (NMED, 2010b), NMED commented that there is no documentation on whether or not the wash pad is still in use. The letter also stated that a final risk screening should be revised to include all historical detections (1993, 1994, and 2008) of all metals and organics determined to be chemicals of potential ecological concern (COPECs). The Voluntary Corrective Action Report (TtEC, 2009) documents the removal/partial removal of the concrete wash pad prior to excavation.

Basis of Determination – SWMU 31

SWMU 31 is proposed for CAC without controls. The concrete wash pad at SWMU 31 has been removed and no soil samples had COCs detected at concentrations greater than action levels as shown in the confirmation samples of both the Voluntary Corrective Actions performed in 1999 and 2008. Results indicated there were no exceedances of the 1,000 mg/kg TPH guideline (NMED, 2012). There were no visible signs of stained soil or elevated headspace screening results for soil remaining within the excavation floor or sidewalls. Since the Voluntary Corrective Actions, a new storm drain culvert has been installed and an asphalt parking lot covers the former Maintenance Shop Pad.

C.2 SWMU 34—AGE Drainage Ditch

Location – SWMU 34

SWMU 34, the AGE Drainage Ditch, is approximately 1,200 ft long, 12 ft wide, and 1 ft deep (Figure I-2, Attachment I). SWMU 34 originates on the flightline side of the AGE Building 186, and is adjacent to SWMU 31, the AGE Maintenance Shop Pad. It runs parallel to Buildings 191 and 193 in a northeast direction. The ditch terminates at a culvert inlet near Argentina Avenue.

History/Current and Anticipated Future Land Use – SWMU 34

SWMU 34 was reportedly formed by a railroad spur's compression of soil into a ditch formation. The railroad tracks were removed in the late 1960s. Stormwater runoff now flows through the ditch formation. Stormwater runoff from the AGE Drainage Ditch flows under Argentina Avenue via the culvert to a second drainage ditch that routes the water to the Northeast Stormwater Drainage Area (SWMU 95). The site is characterized as industrial according to the U.S. Air Force Rational National Standard Initiative. Several vehicles per day use the road that runs parallel to the ditch. The site is approximately 2,000 ft from the nearest base housing. Land use is expected to remain industrial in nature.

Evaluation of Relevant Information – SWMU 34

1983 Phase I and II Investigation

In 1983, a Phase I Installation Restoration Program (IRP) Records Search was performed by CH2M Hill at Cannon AFB to identify and evaluate suspected problems associated with past hazardous material disposal and spill sites. Specifically, the records search evaluated the existence and potential for migration of hazardous material contaminants at the AGE Drainage Ditch via document review and analysis (Harza, 1997).

During 1984 and 1985, a Phase II Investigation was conducted by Radian to determine if environmental contamination had resulted from runoff into the AGE Drainage Ditch. During this investigation, a soil boring (soil boring location 15) was drilled at the site to depths of approximately 50 ft bgs (Figure I-8, Attachment I). Soil samples for chemical analysis were collected to evaluate the impact of past and ongoing activities, and to define site-specific hydrogeologic conditions. Soil samples were analyzed for oil and grease, lead, and organic compounds (Harza, 1997). Analytical results for this investigation are not available in the administrative record.

1987 Soil Removal Investigation

In March 1987, a follow-up soil removal investigation was conducted by Radian based on results of the Phase II investigation at the AGE Drainage Ditch (Radian, 1987). This investigation was conducted to determine whether contaminated soil existed, and if so, to properly remove and dispose of the soil. The investigation consisted of hand-augering 15 shallow boreholes (21 samples collected) in the areas where the most visible staining occurred to a depth of 2 ft bgs (Figure I-8, Attachment I). Soil samples were analyzed for petroleum hydrocarbons, lead, extraction procedure (EP)-toxicity, metals, and purgeable organic compounds (Radian, 1987). The drainage ditch soil was tilled in October 1988 to provide aeration and aid in microbial degradation of contaminants (Woodward-Clyde, 1992); this tilling would have mixed the site's former surface and subsurface. Historical analytical results are compared with current 2012 residential and industrial NMED SSLs in Table II-4, Attachment II. Lead was found at concentration exceeding NMED SSLs in two samples, both collected in the top 1 ft of the soil; the concentrations were 500 and 682 mg/kg relative to the NMED SSL of 400 mg/kg. No other samples had exceedances for lead and all samples did not exceed the TPH GRO and DRO guidelines.

1991 Remedial Investigation

The Remedial Investigation (RI) of 18 SWMUs, including SWMU 34, was completed in 1991 (Woodward-Clyde, 1992). During the RI conducted by Woodward-Clyde (1992), two soil borings were advanced and soil samples were collected. The laboratory missed the holding times for VOC analysis which resulted in the recollection of 1 surface soil sample, the re-drilling of one soil boring, and the recollection of 1 subsurface soil sample. The resampled locations from this RI were analyzed for VOCs, SVOCs, TAL metals, and TPH (Woodward-Clyde, 1992), and are shown in Figure I-8, Attachment I Several VOCs (toluene, tetrachlorethene, and 1,1,2-trichloroethane) and one PAH (carbazole) were detected in these samples.

1991 Baseline Risk Assessment

A BRA (Woodward-Clyde, 1992) was conducted based on the results of the RI. The BRA assessed potential adverse human health and ecological effects by comparing analytical data to risk-based RFI criteria and proposed RCRA action levels, and by calculating site-specific health risks. The BRA identified toluene, lead, selenium, and zinc as COPECs for this SWMU, since these metals exceeded site-specific and regional background concentrations and toluene exceeded residential screening levels. The BRA concluded that potential impacts to human

health and the environment were insignificant at SWMU 34. Based on the analytical results from the investigation, and the risk assessment conducted as part of the RI, the BRA recommended that no further investigation or action was required at SWMU 34 (Woodward-Clyde, 1992).

2006 RFI Report

In 2006 URS reviewed the results and conclusions of the SWMU 34 RI/BRA and compared them to current NMED SSLs at the time (NMED, 2006). The RI analytical results were presented to the NMED in the RFI Report (URS, 2007). URS completed a preliminary risk screening of this site following NMED guidance. Preliminary assessments completed by URS indicated that contaminants present at the site posed an acceptable level of risk for industrial/occupational and construction worker receptors. However, NMED requested that all chemical results for Cannon AFB be screened using residential SSLs (NMED, 2006). The results of this screening were presented in further detail in the RFI report (URS, 2007).

Screening by URS of historical analytical data against the 2006 NMED residential SSLs showed that the maximum TPH concentration in near surface (1,180 mg/kg at boring 0341) exceeded the NMED residential screening guideline. (URS, 2007) for kerosene and jet fuel (760 mg/kg in 2006, and 1,000 mg/kg in 2012) but not the NMED (2012) industrial SSLs (1,810 mg/kg in 2006 and 2400 mg/kg in 2012); however, a residential scenario was considered highly unlikely given the industrial nature of this portion of Cannon AFB (URS, 2009). Arsenic, iron, and mercury exceeded the 2006 NMED soil-to-groundwater SSLs; but all fell below the background levels for Cannon AFB. The maximum lead concentration in near surface soil (500 mg/kg) also exceeded the 2006 NMED residential SSL (400 mg/kg) but not the industrial SSL or construction worker SSL (both 800 mg/kg). The average lead concentration (66 mg/kg) and 95% upper confidence limit (152 mg/kg) were below the lowest 2006 direct contact SSL but exceed the soil-to-groundwater SSL (9.17 mg/kg). However, the soil-to-groundwater exposure pathway was not considered relevant at this site because the depth to groundwater is greater than 250 ft, the infiltration rate is approximately 1.5 ft/year, and the rate of evapotranspiration generally exceeds precipitation (URS, 2007). A comparison of the above analytical results to 2012 residential and industrial NMED SSLs and the TPH screening guideline for unknown oil (NMED, 2012, since it is not certain whether only kerosene and jet fuel were used at the site) are available in Table II-5, Attachment II.

The RFI review indicated that TPH and lead exceeded 2006 NMED residential SSLs. Lead and TPH were detected above the NMED screening level in the one near-surface soil sample collected as part of an RI previously completed at SWMU 34 (Radian, 1987). Additionally, lead was detected above the site-specific surface background values (URS, 2009). A comparison of the original analytical data with 2012 NMED residential SSLs (Table II-5, Attachment II) indicates that this analysis holds true. The RFI report was reviewed by NMED, and based on NMED comments issued in reference to the above mentioned lead and TPH levels; additional sampling at SWMU 34 was suggested to further characterize the site (NMED, 2008).

2008 RFI Addendum with Baseline Risk Assessment

Based on the elevated TPH and lead results, near surface soil samples were collected in October 2008 (URS, 2009). The RFI Addendum (URS, 2009) fieldwork consisted of collecting 20 near surface soil samples (0 to 2 ft bgs) from six soil borings (4 samples per boring) near the previous sampling locations with TPH or lead levels above NMED residential SSLs (2012). Sample locations are shown in Figure I-8, Attachment I. Eight soil samples were submitted to the laboratory for analysis (URS, 2009).

Samples for TPH-DRO and TPH-GRO analysis were planned to be submitted to the laboratory based on visible staining/odor and elevated photoionization detector (PID) readings. However, visible staining/odors were not present in any samples collected, and no elevated PID readings were encountered. Therefore, the 0- to 6-inch sample interval from each soil boring was submitted to the laboratory for TPH-DRO and TPH-GRO analysis (URS, 2009).

A total of eight samples were submitted to the laboratory for analysis (URS, 2009). Five samples were collected from the 0 to 6-inch interval and were analyzed for TPH GRO, TPH DRO, and lead; one sample was from the 0 to 6-inch interval and was analyzed for TPH GRO and DRO; and one sample was collected from the 6-12 inch interval and was analyzed for lead only. Samples for lead analysis were submitted to the laboratory based on x– ray fluorescence (XRF) field screening results. All XRF field screening results were below the NMED residential SSLs (2012) (400 mg/kg) for lead. The sample from each soil boring interval with the highest XRF field screening result was submitted to the laboratory for lead analysis. Based on the XRF field screening results, five samples from the 0- to 6-inch interval and two samples from the 6- to 12-inch interval were submitted to the laboratory for lead analysis (URS, 2009).

TPH-DRO and lead were detected in all samples. URS compared the maximum TPH-DRO concentration to 2006 NMED SSLs. The maximum TPH-DRO concentration in near surface soil (62 mg/kg) was below the 2006 NMED residential screening guideline for diesel #2/crankcase oil of 520 mg/kg (as well as the 2012 residential value for unknown oil of 1000 mg/kg). The maximum lead concentration in near surface soil (682 mg/kg) exceeded the 2006 NMED residential SSL (400 mg/kg). The sample with elevated lead was collected from the 6- to 12-inch interval from soil boring SS01. TPH-GRO was nondetect in all samples; therefore, results were not compared with NMED SSLs. These analytical results are also compared with current 2012 NMED residential and industrial SSLs in Table II-4, Attachment II.

Basis of Determination – SWMU 34

SWMU 34 is proposed for CAC with institutional controls limiting land use to industrial purposes. Elevated lead concentrations (500 and 682 mg/kg) above the 2012 NMED residential SSL (400 mg/kg) were observed in two samples but did not exceed the industrial/occupational SSL (800 mg/kg). Because the average lead concentration (calculated from all analytical results from samples taken at the site) at SWMU 34 is 66 mg/kg, which is below the 2012 residential SSL for lead, and none of the soil samples exceeded the industrial SSL, SWMU 34 is recommended for CAC with controls. In addition, based on the depth of the maximum lead concentration (the 6- to 12-inch interval), as well as the site's configuration and location in a

depression, exposure of future residents is considered an incomplete pathway. An elevated TPH concentration in one near-surface (1,180 mg/kg) soil sample exceeded the residential screening guideline for kerosene and jet fuel (1,000 mg/kg) but not the industrial (2,400 mg/kg), but when compared with unknown oil, the soil sample exceeded both the residential and industrial soil screening guideline (1,000 mg/kg, Table II-5, Attachment II); however, elevated TPH concentrations were not detected in the RFI Addendum sampling event. In addition, a residential scenario is considered highly unlikely given the industrial nature of this portion of Cannon AFB.

C.3 SWMU 78—Fire Training Area No. 1

Location – SWMU 78

SWMU 78, Fire Training Area (FTA) No. 1, is located in the northeast corner of the Base, south of the railroad tracks and northeast of Perimeter Road (Figure I-1, Attachment I). The training area is an unlined, circular surface feature approximately 100 ft in diameter. A site map is presented as Figure I-9 in Attachment I.

History/Current and Anticipated Future Land Use – SWMU 78

Between 1959 and 1968, the site was used twice monthly when approximately 300 gallons of waste oils, solvents, and fuels were poured on the ground surface to create fires. The site has been inactive and unused since 1968, other than routine mowing once a month, six months out of the year.

Cannon AFB is an integral part of the defense system of the United States; therefore, Cannon AFB will remain active for the foreseeable future. Land use is expected to remain industrial in nature.

Evaluation of Relevant Information – SWMU 78

1992 Remedial Investigation

An RI/BRA was completed for the site in 1992 (Woodward-Clyde, 1992). Two soil borings were completed at the site, and soil samples were collected at depths of 4, 10, 20, 30, 40, 50, 60, 70, 75, and 100 ft bgs. In general, the samples were analyzed for VOCs, SVOCs, polychlorinated biphenyls, pesticides, and TPH. In addition, samples from one soil boring were also analyzed for total organic carbon (TOC). One additional boring was later drilled and sampled because the analytical laboratory missed holding times for the VOCs and/or TPH for all previously collected samples. Six surface soil samples were also collected at this later date and analyzed for the same parameters as the subsurface samples (Woodward-Clyde, 1992). The RI surface and subsurface soil boring locations are shown in Figure I-9, Attachment I. The BRA identified dichlorodiphenyldichloroethane (DDD), dichlorodiphenyldichloroethylene (DDE), TPH, lead, and zinc as COCs because these chemicals exceeded site-specific and regional background concentrations. The BRA (Woodward-Clyde, 1992) concluded that no unacceptable human health or ecological risks due to chemical releases were expected from SWMU 78. The original data and report are not available, but are cited in the URS (2009) RFI

Addendum Report and are discussed below. The data results presented in this section are based on information presented by URS (2009) in the RFI Addendum Report.

2007 RFI Report with Conceptual Site Model and Baseline Risk Assessment

The RI/BRA analytical results were reevaluated and compiled into the RFI Report, which was submitted to the NMED (URS, 2007). The results of previous investigations were reviewed as part of the RFI, and the conclusions for SWMU 78 were presented in the RFI report (URS, 2007). The original analytical data, discussed in the RFI in comparison with 2006 NMED SSLs, has also been compared with current 2012 residential and industrial SSLs in Table II-6, Attachment II. Results are shown in Figure I-10, Attachment I.

The RI/BRA compared maximum soil concentrations with 2006 NMED SSLs. The maximum TPH concentration (12,500 mg/kg at boring 0785) exceeded the 2006 TPH residential and industrial screenings guideline for unknown oils (both 200 mg/kg). Samples at three other borings, 0781, 0782, and 0783 also exceeded these guidelines. These detections were all near-surface samples collected between 0-0.5 ft. Risks due to TPH cannot be evaluated quantitatively due to the unknown characteristics of the chemical mixture; however, individual organic constituents of petroleum mixtures were not detected above the SSLs in any of the samples (URS, 2007).

Only the maximum soil lead concentration (529 mg/kg at soil boring 0785) exceeded the 2006 NMED residential SSL (400 mg/kg) but not the 2006 industrial/construction worker SSL (800 mg/kg). The average lead concentration was 275 mg/kg. No lead concentrations exceeded the 2006 industrial SSLs, which is the appropriate scenario for this site, given the current and anticipated future land uses.

The maximum concentrations of vinyl chloride and manganese in surface soil exceeded the 2006 soil-to-groundwater SSL, but in the case of manganese, fell below the background level. Vinyl chloride, arsenic, iron, manganese, and mercury maximum concentrations in combined surface and subsurface soil also exceeded the 2006 soil-to-groundwater or construction worker SSL, but in the case of the metals, fell below the background levels. Impacts to groundwater were considered minimal because the depth to groundwater is greater than 250 ft, and in the case of vinyl chloride, the concentrations detected were very low (0.011 mg/kg maximum) (Table II-6, Attachment II)

The RFI indicated that TPH and lead exceeded the 2006 NMED residential SSLs. TPH was detected above the 2006 NMED screening levels in four shallow soil samples, and lead was detected above the screening levels in one shallow soil sample collected as part of an RI previously completed at SWMU 78 (Woodward-Clyde, 1992). Table II-6, Attachment II shows that when compared with 2012 NMED residential and industrial SSLs these five samples are still above screening levels today.

2007 Conceptual Site Model

As part of the RFI (URS, 2007), a conceptual site model (CSM) was developed based on historical site information. The most significant exposure pathways include inhalation of

fugitive dust and direct contact with soil resulting in incidental ingestion or dermal absorption of chemicals from soil. Human receptors for these pathways include adult general duty workers and construction workers. Future residential exposure is unlikely because of the industrial nature of this site and the surrounding area. In addition, the site is less than one-half acre in size, so the potential for major soil excavation and future construction of residential homes within the area of this SWMU is low. The adult base worker that potentially visits the site a few days per year for grounds-keeping activities and/or a short-term excavation worker are expected to be the most significant receptor population under current and future exposure conditions.

One lead result collected from the 0- to 6-inch sample interval at soil boring 0785 was above the 2012 NMED residential and industrial SSL. URS determined that it is unlikely that exposure to human receptors of the lead level above the NMED residential and/or industrial SSL would occur due to the heterogeneous distribution of lead particles in soil. The average lead concentration (180 mg/kg) for samples collected during all investigations at SWMU 78 before 2008 was below the NMED residential SSL (400 mg/kg). TPH results were above the 2006 and 2012 NMED residential guidance for TPH. The RFI concluded that risks due to TPH cannot be evaluated due to the unknown characteristics of the chemical mixture; however, the individual components of petroleum mixtures were not detected at concentrations above NMED SSLs (2012) in any of the samples (URS, 2007).

2007 Baseline Risk Assessment

In addition, the RFI Report included a preliminary risk screening (URS, 2007). The preliminary risk assessment also indicated that contaminants present at the site posed an acceptable level of risk for industrial/occupational and construction worker receptors. However, the preliminary risk assessments indicated that the contaminants present at the site posed an unacceptable risk for receptors in a residential scenario. As a result, NMED requested that Cannon AFB perform preliminary risk screening assessments using the residential screening levels and TPH value for unknown oil (NMED, 2007).

The NMED reviewed the RFI Report and subsequently requested additional sampling at SWMU 78 to further characterize the site due to the elevated lead and TPH results (NMED, 2008).

2008 RFI Addendum

RFI Addendum Activities were performed in 2008 (URS, 2009). Elevated lead and TPH concentrations were not detected in the subsurface during previous investigations; therefore, only near-surface samples were collected. The investigation consisted of collecting three near-surface soil borings (0 to 2 ft bgs), shown in Figure I-9, Attachment I, near the previous sampling locations with TPH or lead levels above residential and industrial NMED SSLs.

Soil samples were collected at 0- to 6-inch intervals to a depth of 2 ft bgs using stainless steel hand augers from three soil borings within SWMU 78. In total, 12 samples were collected from the three boring locations, with four samples per boring. Three soil samples and one duplicate field sample were submitted to the laboratory for analysis for TPH-DRO, TPH-GRO and lead (URS, 2009).

Samples for TPH-DRO and TPH-GRO analysis were submitted to the laboratory based on visible staining/odor and elevated PID readings. Visible staining was present from 0 to 2 inches in all three soil borings (three samples submitted for analysis, one from each soil boring). No odors were present and no elevated PID readings were encountered at the three soil boring locations (URS, 2009).

Lead samples were submitted to the laboratory based on XRF field screening results. All XRF field screening levels were below the 2006 NMED residential SSL (400 mg/kg) for lead with the exception of the 0- to 6-inch sample interval from SS01. The average field XRF lead analysis for the 0- to 6-inch interval for sample SS01 was 408 parts per million (ppm). The sample from each soil boring interval with the highest XRF field screening result was submitted to the laboratory for lead analysis. Based on the XRF field screening results, three samples from the 0- to 6-inch interval were submitted to the laboratory for lead analysis (URS, 2009).

TPH-DRO and lead were detected in all three primary samples. The maximum TPH-DRO concentration was compared with 2006 NMED SSLs. A current comparison of the original data with 2012 NMED residential and industrial SSLs can be found in Table II-6 Attachment II. The maximum TPH-DRO concentration in near surface soil (410 mg/kg) was above the NMED residential screening guideline at the time of the RFI Addendum (URS, 2009) for unknown oil (200 mg/kg). The maximum lead concentration in near surface soil from soil boring SS01 (894 mg/kg) exceeded the NMED residential SSL (400 mg/kg) and the industrial and construction worker SSLs (both 800 mg/kg). TPH-GRO was nondetect in all 2008 RFI Addendum samples; therefore, results were not compared with NMED SSLs in Table II-6, Attachment II. Analytical results are presented in Table II-6 and shown by location in Figure I-10. The comparison with current 2012 SSLs in Table II-6, Attachment II demonstrates that while lead is still above the residential and industrial screening levels, TPH-DRO is below the residential screening level for unknown oil.

Basis of Determination – SWMU 78

SWMU 78 is proposed for CAC with institutional controls. Based on the results of the BRA and CSM, the size of the area combined with its extremely limited use supports the determination. The elevated TPH levels that were identified by the RI and RFI, including the Addendum, no longer appear in samples collected during the RFI Addendum sampling event (URS, 2009). Elevated lead was observed above the 2006 and 2012 NMED residential SSL (400 mg/kg) in two soil samples (529 and 894 mg/kg) and above the industrial SSL (800 mg/kg) in one soil sample (894 mg/kg; boring SS01) collected during all investigations. Because the average lead concentration at the site is 180 mg/kg, which is below the residential screening level for lead, and only a single lead concentration exceeded the industrial SSL, CAC with controls is appropriate for SWMU 78.

C.4 SWMU 85—Stormwater Collection Point

Location – SWMU 85

SWMU 85 is a naturally occurring 9-acre playa lake that collects stormwater runoff from the flightline. The lake is located in the southwestern part of Cannon AFB (Figure I-1, Attachment I).

History/Current and Anticipated Future Land Use – SWMU 85

The naturally occurring playa lake that makes up SWMU 85 has collected stormwater runoff from the flightline since 1943. Stormwater runoff flows toward the center of the site where it either evaporates or percolates into the soil. The eastern third of the playa is filled with broken concrete from the apron and runway demolition that has occurred throughout the years.

SWMU 85 is located in an area characterized by the Cannon AFB Comprehensive Plan as an Open Area. Open Areas are defined as conservation areas and require buffer space. This site is also characterized as Open Space according to the U.S. Air Force's Rational National Standards Initiative (Harza, 1997).

Cannon AFB is an integral part of the defense system of the United States; therefore, Cannon AFB will remain active for the foreseeable future. Land use will remain industrial in nature and the site will continue to be used as a stormwater detention pond.

Evaluation of Relevant Information – SWMU 85

1986 IRP Phase II

As part of the IRP Phase II, Radian (1986) collected soil samples from three, shallow (5-ft) soil borings that were hand-augered, two near the center of the basin and one near the inlet; samples were collected at 3 - 4 ft bgs. Saturated conditions existed at each location at depths of 4 ft and greater and prevented the collection of samples from a depth of 5 ft bgs, as planned. The samples were analyzed for priority pollutant metals plus iron, nickel, zinc, oil and grease, and VOCs.

No VOCs were detected in any of the samples collected at SWMU 85 during the IRP Phase II. One sample contained oil and grease at a low level. Many of the metals detected exceeded the background range, which could potentially be attributed to the presence of caliche and calcium carbonate cemented sands (Radian, 1986). One soil boring located in the deepest part of the playa had metal concentrations higher than the other two soil borings. The IRP Phase II recommended additional investigation to evaluate the potential concentrations of heavy metals towards the center (deeper) part of the playa. The IRP Phase II report is not available. The data presented in this section are based on information presented in the Decision Document (Harza, 1997).

1990 Remedial Investigation with Human Health Risk Assessment

Walk-Haydel and Associates, Inc. (Walk-Haydel) (1990) conducted an RI at SWMU 85 to characterize three areas: the discharge channel, the active playa, and the fill area (containing broken concrete from apron and runway demolitions). A total of eight boreholes were drilled and sampled at multiple intervals to a total depth of 70 ft bgs. Samples were analyzed for VOCs, base/neutral extractable compounds, and total and RCRA metals. The original data and report is not available, although cited in the URS (2009) RFI Addendum Report. The data presented in this section are based on information presented by URS (2009) in the RFI Addendum Report (Table II-7 Attachment II).

No organic compounds were detected in any of the samples collected. Three metals (barium, mercury, and selenium) were detected at concentrations slightly above background. Walk-Hydel (1990) concluded that the results of the sampling did not indicate a trend of increasing metals concentrations with depth in the playa. Additionally, they stated that the results of the EP-toxicity tests indicated that the concentrations of metals detected would not be expected to leach out of site soil. The RI Report and sample results are not available, and therefore, are not presented in this document.

1990 Human Health Risk Assessment

The RI also included an ecological and human health risk assessment that identified barium, mercury, and selenium COPECs. Only mercury and selenium were detected in the top 5 ft of soil at SWMU 85. The ecological risk assessment assumed that the disturbance of soil by wildlife due to tunneling and burrowing activities will occur to a maximum depth of 5 ft bgs. Mercury was detected at a single location and was determined by Walk-Haydel (1990) to be an isolated occurrence and not characteristic of site contamination. The detections of selenium ranged from non-detect to 1908.8 mg/kg and selenium is considered to be present at concentrations toxic to wildlife; the average toxic level for wildlife is 3 mg/kg. The human health risk assessment by Walk-Haydel (1990) concluded that the metal concentrations present at SWMU 85 are indicative of metal background concentrations.

2007 RFI Report

The results of previous investigations were reviewed as part of the RFI, and the conclusions for SWMU 85 were presented in the RFI report (URS, 2007). In the case of SWMU 85, SSL leaching values were not considered applicable since the EP toxicity test results indicated that contaminants are not being transported significantly in a vertical direction, and because the depth to groundwater is greater than 250 ft (URS, 2007). As part of the initial RFI, maximum detected concentrations in combined surface and subsurface soil samples were compared with the 2006 NMED construction worker SSLs. Estimated daily intakes of essential nutrients were compared with the recommended daily allowance levels established by the National Resource Council (NRC), where applicable. Lead concentrations were compared with the 2006 NMED SSLs based on the EPA Integrated, Exposure, Uptake and Biokinetic model for occupational adult exposure (800 mg/kg) (URS, 2007). A comparison of values with current 2012 NMED SSLs is discussed below and is shown in Table II-7, Attachment II.

No VOCs or base/neutral extractable compounds were detected in the Phase II or RI reports. A low concentration of oil and gas (40 mg/kg) was detected below 2006 NMED screening levels in one near surface sampling collected during the Phase II investigation. The maximum concentrations of arsenic in surface soil (50.3 mg/kg at S12-B1) and combined soil surface and subsurface soil (112.4 mg/kg at S12-B4) exceeded the residential, industrial, and soil-to-groundwater SSLs by both 2006 and 2012 NMED standards. The maximum surface soil value did not exceed the NMED construction worker SSL (85.2 mg/kg in 2006 and 53.0 in 2012). However, it is plausible that the elevated arsenic concentrations and elevated reporting limits associated with the arsenic data in the IRP Phase II Report (Radian, 1986) may be attributable to inter-element interference that was not properly accounted for during laboratory analysis and may not be representative of site conditions (Walk-Haydel, 1990). The maximum iron, mercury (combined soil only), and selenium concentrations in surface soil and/or combined soil also exceeded the soil-to-groundwater SSLs (all exceeded 2006 standards, only mercury and selenium exceeded 2012 NMED SSLs); however, SSL leaching values are not considered applicable for this SWMU because the EP toxicity test results demonstrate that contaminants are not being transported significantly in a vertical direction, and depth to groundwater is greater than 250 ft bgs (URS, 2007).

The initial RFI concluded that even if VOCs, BNA, and metals concentrations are higher than the construction worker SSLs, exposure to subsurface soil is highly unlikely due to the presence of a naturally occurring playa lake. This scenario would require direct contact with subsurface soil beneath the 9-acre lake and/or beneath the 10 ft of the fill area containing broken concrete from apron and runway demolition (URS, 2007).

The initial RFI determined that no COPC were present for the construction worker scenario applicable to the site. Additionally, no unacceptable ecological risks were identified as a result of the evaluations performed during the RFI, which included data and results from previous investigations or associated risk evaluations. However, the NMED letter response dated May 14, 2008 to the initial RFI report recommended additional investigation for SWMU 85.

2009 RFI Addendum

One surface soil sample (C85-SS01) was collected and two soil borings (C85-SB01 and C85-SB02) were completed at SWMU 85 as part of the RFI Addendum (Figure I-4, Attachment I). The surface soil sample was collected from 0 to 6 inches bgs with a stainless steel hand-auger near the broken concrete in the eastern portion of the playa in the middle of the stormwater collection point (Figure I-4, Attachment I). The two soil borings were advanced to a depth of 15 ft bgs. One boring was located in the north of the playa lake; the other was located near the eastern edge. Samples were collected at 4-ft intervals and submitted to the laboratory for arsenic analysis (URS, 2009).

Three samples from each soil boring and one sample from the surface soil location were submitted based on XRF field screening analysis. All field screening results for XRF were nondetect based on the instrument detection limits. Arsenic was detected in all seven samples. The maximum arsenic concentration detected in near surface soil (0 to 2 ft bgs) was 6 mg/kg, which exceeded the residential NMED SSL (3.9 mg/kg in 2006 and 2012), but is below both the

industrial (17.7 mg/kg in 2006 and 2012) and construction worker SSL. The maximum detected concentrations of arsenic also exceeded the Cannon AFB background limit of 4.3 mg/kg. For subsurface soil (depths greater than 2 ft bgs), the maximum detected arsenic concentration is 3.3 mg/kg (URS, 2009); this concentration is lower than the NMED SSLs for residential, industrial, and construction works scenarios, as well as below the Cannon AFB background at the time of the study, as well as today (NMED, 2006 and 2012). Based on the arsenic analytical results from the RFI Addendum fieldwork, the arsenic data from the samples collected during the RI is considered to be not valid data. The RI data was generated during the inception of inductively coupled plasma technology for metals analysis, in which inter-elemental interference may have been present; therefore the data generated is considered invalid (URS, 2009). Therefore, results from the RFI Addendum Report were only considered in the basis of determination for SWMU 85. Analytical results comparing the original analytical data to current 2012 NMED SSLs are presented in Table II-7, Attachment II.

The RFI Addendum Report recommends CAC with controls for SWMU 85 based on the results of the IRP Phase II and RFI evaluations. The NMED approved the RFI Addendum Report on July 7, 2010 (NMED, 2010c).

Basis of Determination – SWMU 85

SWMU 85 is proposed for CAC with institutional controls designating it as an industrial area. Arsenic is the only COC at the site and was only detected above the NMED residential SSL in one surface soil sample at a concentration of 6.0 mg/kg, slightly above the established background value (3.6 mg/kg for surface soil) for Cannon AFB (Table II-7, Attachment II). The site is highly unlikely to be developed and will remain an industrial area with very little human contact. The 250-ft depth to groundwater combined with the only high arsenic detection being at the surface make this site unlikely for any leaching of contaminants to groundwater.

C.5 SWMU 95—Northeast Stormwater Drainage Area

Location – SWMU 95

SWMU 95 is a shallow, open ditch that begins near the end of the northeastern runway, Runway 4/22, and extends to the southeast under an access road before emptying into an open field (Figure I-1). A site map is presented in Attachment I (Figure I-5)

History/Current and Anticipated Future Land Use – SWMU 95

The northwest end of the ditch is marked by a concrete culvert and is surrounded by heavy vegetation. The drainage ditch is approximately 40 ft wide and runs for approximately 550 ft until it reaches the field. The Northeast Stormwater Drainage Area (SWMU 95) started receiving runoff from the runways in 1953 and is currently active. The majority of flow in the ditch occurs as storm runoff only during precipitation events (Figure I-5, Attachment I).

No other buildings or structures exist in the area adjacent to SWMU 95. The primary facility located near SWMU 95 is the active northeast-southwest runway located northwest of the unit. The vegetation is not mowed and is not frequented by base personnel.

Cannon AFB is an integral part of the defense system of the United States; therefore, Cannon AFB will remain active for the foreseeable future. Land use is expected to remain industrial in nature.

Evaluation of Relevant Information – SWMU 95

1990 IRP Remedial Investigation

The site was investigated during a Final IRP RI (Walk-Haydel, 1990). The investigation included drilling and sampling of 11 soil borings (Figure I-5, Attachment I) to characterize the drainage channel located northwest of the access road and the open field that receives the drainage located southeast of the road. Soil samples were collected to maximum depths that ranged from 5 to 61.5 ft. Samples were analyzed for RCRA metals, TPH, VOCs, and base/neutral extractable compounds. Long-chain organic compounds were detected at a shallow depth (upper 3 ft of sediment) in one soil boring near the northwest end of the drainage ditch. Selenium and barium were detected in concentrations above area background concentrations. Analytical results compared with current 2012 NMED SSLs are shown in Table II-8, Attachment II. The original data and report is not available, although cited in the URS (2009) RFI Addendum Report. The data presented in this section and Table II-8, Attachment II are based on information presented by URS (2007 and 2009) in the RFI Report and RFI Addendum Report.

1992 Remedial Investigation with Baseline Risk Assessment

An RI (Woodward-Clyde, 1992) was completed at SWMU 95 to provide additional information regarding the nature and extent of contaminants upstream. Two soil borings were drilled and sampled to maximum depths of 10 ft bgs, with one surface and three subsurface soil samples collected from each soil boring (URS, 2009). The soil borings were located near the upstream end of SWMU 95 to evaluate possible contaminant contributions from areas upstream of the already-sampled reach of the ditch. Soil sample locations are shown, in Figure I-5, Attachment I and with arsenic concentrations in Figure I-11, Attachment I. Samples were analyzed for VOCs, SVOCs, TAL metals, and TPH. Low concentrations of VOCs (acetone, 2-butanone, methylene chloride, toluene, and xylene) were detected in several samples at various depth intervals, but were not indicative of contamination (Woodward-Clyde, 1992). Analytical results compared with current 2012 NMED SSLs are shown in Table II-8, Attachment II.

A BRA was completed based on data collected during the RI (Woodward-Clyde, 1992). As a result of the BRA, lead and zinc were identified as the only COPCs for human health risk evaluation. Calculations of risk to human health for non-carcinogenic and carcinogenic risks indicated no unacceptable risk. No unacceptable ecological risks were identified and NFA was recommended.

2007 RFI Report with Conceptual Site Model

The results of previous investigations were reviewed as part of the RFI, and the conclusions for SWMU 95 were presented in the RFI report (URS, 2007). The RFI review indicated that arsenic results exceeded 2006 NMED residential SSLs in surface and subsurface soil samples.

However, the RFI concluded that it is plausible that the elevated concentrations and elevated reporting limits associated with the arsenic data in the RI "may be attributable to inter-element interference that was not properly accounted for during laboratory analysis and may not be representative of site conditions" (Walk-Haydel, 1990). Inter-element interference is a phenomenon that can occur during ICP analysis where elevated levels of other metals can interfere with inorganic analysis and result in erroneously elevated detections (e.g., lead vs. iron or aluminum vs. arsenic). At the time of the study maximum soil concentrations for all detected chemicals were compared with 2006 NMED SSLs. None of the VOCs that were detected above the reporting limits exceeded the SSLs. One SVOC (2-methylnapthalene) and several metals (arsenic, barium, iron, and selenium) in surface and combined soil exceeded the soil-to-groundwater SSLs; however, the RFI concluded that SSL leaching values were not considered applicable for this SWMU because soil sampling results demonstrated that contaminants were not being transported significantly in a vertical direction, and depth to groundwater is greater than 250 ft (URS, 2007). TPH was detected above the residential action level but below the industrial soil action level. The concentration data from the RI were unavailable for review for this document.

The maximum concentrations of arsenic in surface soil (80.3 mg/kg) and combined soil (152 mg/kg) collected during the IRP RI (Walk-Haydel, 1990) exceeded the 2012 NMED construction worker SSL (53.0 mg/kg) and/or soil-to-groundwater SSL (0.0131 mg/kg). All supplemental RI (Woodward-Clyde, 1992) arsenic data are less than or equal to the 2012 residential SSL (3.9 mg/kg). The RFI suggested that the elevated concentrations and reporting limits associated with the IRP RI (Walk-Haydel, 1990) may be attributed to inter-element interference due to the inception of inductively coupled plasma (ICP) technology, and the analysis of samples using this new technology and may not be representative of site conditions.

2007 Conceptual Site Model

A CSM was developed based on historical site information as part of the RFI (URS, 2007). The primary chemical sources at the Northeast Stormwater Drainage Area include fuel-related hydrocarbons and metals. Hydrogeological and soil/metal interactions are such that significant movement of metals is not anticipated. The site is a naturally occurring drainage area in an isolated, vegetated area outside of traffic pathways.

The only potential human exposure pathways are for low frequency visits by the industrial (maintenance) worker and excavation worker. Even though the site is greater than one-half acre, construction of residential homes in this area is highly unlikely given that the area is a natural drainage ditch and it would require a major earthmoving effort to divert the natural runoff pattern in order to allow construction of residential homes. The primary release mechanisms by which COCs could potentially be released from SWMU 95 are by direct contact during soil disturbance or excavation activities, and by infiltration to groundwater affecting the potable water supply. Even though exposure to the subsurface soil is unlikely, it should be evaluated in the unlikely event that the subsurface soil is disturbed and/or mixed with surface soil. The data used for screening against SSLs were limited to samples collected from the 0 through 10 ft bgs intervals. The most significant potential exposure pathway is direct contact with soil, resulting in incidental ingestion or dermal absorption of chemicals from soil over a short duration and frequency.

Inhalation is not a likely exposure pathway because the area is vegetated. Human receptors for this pathway are limited to maintenance workers and construction workers. Future industrial or residential exposure is unlikely because the potential for major soil excavation and future construction of buildings or residential homes within this SWMU, a drainage area, is low (URS, 2007).

The site is well vegetated, is not part of a traffic pathway, and will remain a stormwater collection point due to the fact that it is a natural topographic depression (URS, 2007). The RFI determined that surface runoff was not considered a pathway and because evapotranspiration is greater than precipitation, no water is expected to infiltrate the ground to the water table except during storm events. Therefore, contaminated soil as a release source was not evaluated. The distribution of metals did not reflect trends associated with introduced contamination, but may have reflected an accumulation of metals in the culvert as it collected surface runoff. Based on this, the RFI recommended evaluation of the leaching of metals from soil to groundwater (URS, 2007). The RFI report was reviewed by NMED, and based on NMED comments regarding arsenic levels; additional sampling at SWMU 95 was suggested to further characterize the site (NMED, 2008).

2009 RFI Addendum

In October 2008, URS advanced four soil borings to 15 ft bgs in 2-ft intervals using the drill rig and 4-ft intervals using direct push technology in the Northeast Stormwater Drainage area (SWMU 95) (URS, 2009). Sample location SB02 was drilled by hollow-stem auger, and samples were collected using continuous sampling. Soil borings SB01, SB03, and SB04 were advanced to 15 ft bgs using direct push technology.

Samples were submitted to the laboratory based on XRF field screening results. Three samples from each sample location were submitted to the laboratory for arsenic. All XRF field screening results were nondetect (nondetect less than 11 ppm) based on the field instrument detection limits with the exception of SB01. The 0- to 4-ft bgs interval had readings of 12 ppm and 15 ppm, which indicated that arsenic was detected in the sample (URS, 2009). Boring logs were completed for all soil borings and are presented in the original report. Sampling was completed in accordance with the original RFI Work Plan (URS, 2005) and RFI Work Plan Addendum (URS, 2008).

Arsenic was detected in all laboratory samples. The maximum arsenic concentrations have been compared with current 2012 NMED SSLs. The maximum arsenic concentration in near surface soil (4.6 mg/kg) exceeded both the 2012 NMED residential SSL for arsenic (3.9 mg/kg) and the Cannon AFB background level (4.3 mg/kg for subsurface soil). The maximum arsenic concentration in subsurface soil (i.e., greater than 2 ft bgs) (3.8 mg/kg) was below the 2012 NMED residential SSL (3.9 mg/kg). The sample in which arsenic exceeded the 2012 residential SSL was collected from the 0- to 4-ft interval from soil boring SB01. Based on the arsenic analytical results from the RFI Addendum fieldwork, the arsenic data from the samples collected during the RI is considered not to be valid data. The RI data was generated during the inception of inductively coupled plasma technology for metals analysis, in which interelemental interference may have been present; therefore the data generated is considered invalid (URS,

2009). Therefore, results from the RFI Addendum Report were only considered in the basis of determination for SWMU 95. Analytical results for arsenic compared with 2012 SSLs are shown in Table II-9, Attachment II. RFI soil sampling locations are shown in Figure I-5, Attachment I with their associated arsenic concentrations in Figure I-11, Attachment I.

Basis of Determination – SWMU 95

SWMU 95 is proposed for CAC with controls. Arsenic is the only COC at the site, and was only detected above the 2012 NMED residential SSL in one surface soil sample at a concentration of 4.60 mg/kg, 0.3 mg/kg above the established background value for Cannon AFB (Table II-9, Attachment II). The site is highly unlikely to be developed and will remain an industrial area with very little human contact. The 250-ft depth to groundwater combined with the fact that the only arsenic detection to exceed the 2012 residential SSL is at the surface make this site unlikely for any leaching of contaminants to groundwater.

C.6 SWMU 110—Underground Waste Oil Tank No. 2336 at FTA No. 4

Location – SWMU 110

SWMU 110, Underground Waste Oil Tank No. 2336, is located at the FTA No. 4. FTA No. 4 is near the southeast corner of Cannon AFB, approximately 2,000 ft southeast of the end of Runway 31 (Figure I-1, Attachment I). Site maps are presented as Figures I-6 and I-12 in Attachment I. During previous investigations SWMUs 109, 110, 111 and 112 were grouped together as the FTA No. 4. Samples collected are not necessarily specific to a single SWMU; however, for the sake of clarity, activities have been organized by SWMU number in this document.

History/Current and Anticipated Future Land Use – SWMU 110

SWMU 110 is part of FTA No. 4, which consists of four separate SWMUs (109, 110, 111, and 112). In 1974, the FTA No. 4 was activated as a fire training area. The underground waste oil tank was a 2,000-gallon storage tank that was installed in 1975. Although it is referred to as the waste-oil tank, the only official to its use found during the historical records search states that the tank was used to store JP-4 fuel for use during fire training exercises (Foster Wheeler, 2001). The tank was removed in March 1989. During tank removal, approximately 204 cubic yards of soil was removed from the area around the tank. After 1995, the area was no longer used for fire training exercises.

Cannon AFB is an integral part of the defense system of the United States; therefore, Cannon AFB will remain active for the foreseeable future. Land use is expected to remain industrial in nature.

Evaluation of Relevant Information – SWMU 110

1985 Phase II, Stage I Remedial Investigation

In 1985, Radian performed additional sampling that focused on SWMU 109. The results of this investigation are included in the summary because SWMU 109 is proximal to SWMU 110 (within approximately 100 feet). Radian completed two deep soil borings as part of an RI (Radian, 1985); one approximately 50 ft northeast of the training pit, SWMU 109, and one roughly 100 ft southeast of SWMU 109. Two boreholes were installed and five soil samples were collected. Figure I-12, Attachment I depicts the locations of these two borings. Samples were analyzed for oil, grease, purgeable halocarbons, purgeable aromatics, and lead; however samples were not analyzed for TPH. Oil and grease were detected at both boreholes in three samples, and lead was detected in all samples in each borehole. In the eastern borehole, the presence of oil and grease was indicated up to 280 mg/kg, and lead was detected between 4.1 and 39 mg/kg at a depth of 10.5 to 11.5 ft bgs. Results from the southern borehole indicate 37 mg/kg of oil and grease at a depth of 43 to 45 ft bgs. All purgeable halocarbons and aromatics were nondetect. The analytical data package was not included in the report.

1988 Remedial Investigation

The underground fuel tank was suspected of leaking at an unknown time. Additional investigation sampling was completed in 1988 by Walk-Haydel to characterize the underground tank area and the runoff area (SWMUs 111and 112). It was estimated that approximately 1,000 gallons of JP-4 had leaked from the tank. They completed nine borings (B1, B3, and B4-B10) in the area of SWMU 110, 111, and 112 (Figure I-12, Attachment I). Five boreholes were installed at a distance of approximately 70 ft from SWMU 110 (B1, B3, B6, B8, and B10). Boreholes ranged in depth from 5 to 100 ft, and samples were collected every 2 ft to a depth of 11 ft, then every 5 ft to a depth of 31.5 ft when samples were collected every 10 ft to total borehole depth. Samples were analyzed for VOCs and metals; however samples were not analyzed for TPH. Three of the borehole locations are located within approximately 70 ft around the underground tank (SWMU 110); results indicate JP-4 constituents of benzene, toluene, ethylbenzene, and total xylenes were detected in the soil samples. Concentrations were reported to a depth of 100 ft and ranged from 2.03 to 15.2 mg/kg benzene; 0.62 to 56.2 mg/kg ethylbenzene; 0.28 to 64.0 mg/kg toluene; and 1,500 to 93.8 mg/kg xylene (total). None of the VOCs exceed current NMED residential SSLs for samples collected near SWMU 110. Four metals were detected in the soil samples and ranged from 50.7 to 152.5 mg/kg for arsenic, 676.9 to 1,713.5 mg/kg for barium, 7.8 to 12.7 mg/kg for cadmium, and 67 to 198.4 mg/kg for silver (Foster Wheeler, 2001). All arsenic concentrations exceed the current NMED residential SSL of 3.9 mg/kg. The maximum arsenic concentration detected near SWMU 110 was 96.6 mg/kg at a depth of 15 to 16.5 ft bgs (B8). No other metals exceeded current NMED SSLs for samples collected near SWMU 110.

1989 Tank Removal

The waste oil tank was removed in 1989, and at the time of removal, the tank, along with excavated soil, was placed on heavy-gauge plastic on a plot adjacent to the abandoned runway

for landfarming. Records indicate that no samples were collected from the area of the removed tank, either prior to excavation/removal or after excavation/removal. In September 2000, Foster Wheeler conducted sampling of the excavated soil that was placed at the landfarm to assess the remaining levels of contamination in the landfarmed soil. The results of this investigation provide information on the TPH concentrations in soil prior to tank excavation in 1989. Five soil samples were collected in the deeper areas of the landfarm (1 to 1.5 ft) and were analyzed for TPH. The maximum concentration of TPH detected was 2,900 ppm, which is equivalent to 2,900 mg/kg. The sample was taken at the northwest corner of the landfarm. The maximum concentration detected is above the current NMED residential SSL of 1,000 mg/kg for jet fuel. TPH results for the five confirmation soil samples are compared with current NMED residential SSLs for jet fuel (NMED, 2012) in Table II-10, Attachment II. Figure I-12, Attachment I illustrates the location of the landfarm immediately west of SWMU 110, as well as the locations of the five soil samples within the footprint of the landfarm.

1991 Remedial Investigation

Woodward-Clyde (1991) performed additional sampling near SWMU 109; none of the collected samples were within 100 ft of SWMU 110. Near SWMU 109, samplers collected four surface soil samples (soil borings 1091-1094), as well as four resample soil borings (1095-1098) as part of the RI (Woodward-Clyde, 1991).

1996 - 1997 Phases I and II RFI

In accordance with the Operations Plan for Cannon AFB, SWMU 110 was grouped with SWMUs 109, 111, and 112 for the Phase I and II RFIs due to their proximity and interrelated historical operations (Harza, 1997).

A Phase II RFI was conducted by Harza in October 1996 and February 1997 at the FTA No. 4 to further delineate the vertical and lateral extent of contamination at FTA No. 4. The Phase II RFI included a passive gas survey, human health evaluation, ecological risk assessment, soil borings, and soil samples at various locations at FTA No. 4. The passive gas survey included installing, retrieving, and analyzing soil gas screening modules at 40 locations at the site.

A total of 19 soil borings (SB01-SB19) were advanced as part of the Phase II RFI, ranging in depth from 20 to 90 ft; the soil boring locations were determined from the results of the passive gas survey. Soil samples were collected during borehole advancement at the surface and then at 10-ft intervals to total borehole depth. Samples were analyzed for VOCs, SVOCs, cyanide, TAL metals, and TRPH. Additionally, representative samples were collected from each borehole for geotechnical analysis; a total of 12 samples were analyzed for particle size analysis and moisture content (Harza, 1997).

Only one sample was collected at SWMU 110. Soil boring SB12 (Figure I-12, Attachment I). Soil boring SB12 is located in the center of SWMU 110, where the underground waste oil tank was located. The total depth of SB12 was 40 ft bgs, and a total of five samples were collected during drilling. No VOCs, SVOCs, or cyanide were detected in soil samples collected from this borehole. Seventeen metals were detected (Harza, 1997). Table II-10, Attachment II

summarizes the soil sample results for SB12. Concentrations were compared with current residential SSLs (NMED, 2012), and no concentrations exceeded SSLs.

2001 Corrective Measure Study

A CMS was completed for the FTA No. 4 in 2001 (Foster Wheeler). As part of the CMS, the corrective action objective for TPH at SWMU 110 was defined as 5,000 mg/kg, which is higher than the TPH residential direct exposure guideline for jet fuel. The corrective action objective in soil was based on a ranking score that incorporated three criteria, depth to groundwater, wellhead protection area, and distance to surface water body for FTA No. 4. The highest TPH concentration detected at SWMU 110 was 77.5 mg/kg (soil boring SB12) and 330 mg/kg detected in landfarm soil (Table II-10, Attachment II). Based on the site characteristics and potential contaminant sources, the recommendation for SWMU 110 is No Action (Foster Wheeler, 2001).

Basis of Determination – SWMU 110

SWMU 110 is proposed for CAC without controls. The underground waste oil tank at SWMU 110 has been removed, and no soil samples had COCs detected at concentrations greater than action levels.

C.7 SWMU 111—Unlined Pit at FTA No. 4 and SWMU 112—OWS No. 2336 at FTA No. 4

Location – SWMUs 111 and 112

SWMU 111 (unlined pit) and SWMU 112 (OWS) are located at the FTA No. 4 near the southeast corner of Cannon AFB, approximately 2,000 ft southeast of the end of Runway 31 (Figure I-1, Attachment I). Site maps are presented as Figures I-6 and I-12 in Attachment I.

History/Current and Anticipated Future Land Use – SWMUs 111 and 112

Prior to 1985, the unlined pit (SWMU 111) was used to collect runoff from SWMU 109 after fires were extinguished during fire training exercises. The pit was backfilled with gravel in 1985 prior to the installation of the OWS (SWMU 112). The pit included an internal an underground pipe that conveyed excess fuel and water to the OWS (SWMU 112). The OWS received wastewater from the fire training pit that was then discharged to a nearby leach field. The OWS (SWMU 112) was then activated in 1985. The OWS was removed in 1997 along with the associated leach field;; however the underground pipe remains.

Due to the location of SWMU 112 (OWS) within SWMU 111 (unlined pit) (Figure I-12, Attachment I), previous investigations grouped the two SWMUs together, and thus they are collectively discussed in the same section in this document.

Cannon AFB is an integral part of the defense system of the United States; therefore, Cannon AFB will remain active for the foreseeable future. Land use is expected to remain industrial in nature.

Evaluation of Relevant Information – SWMUs 111 and 112

1985 Remedial Investigation

In 1985, Radian performed additional sampling that focused on SWMU 109. The results of this investigation are included in the summary because SWMU 109 is proximal to SWMUs 111 and 112 (within approximately 100 feet). Radian completed two deep soil borings as part of an RI (Radian, 1985); one approximately 50 ft northeast of the training pit, SWMU 109 (sample location 9A), and one roughly 100 ft southeast of SWMU 109 (sample location 9B). Two boreholes were installed and five soil samples were collected. Sample location 9A is located approximately 100 ft south of SWMUs 111 and 112. Figure I-12, Attachment I depicts the locations of these two borings. Samples were analyzed for oil, grease, purgeable halocarbons, purgeable aromatics, and lead; however samples were not analyzed for TPH. Oil and grease were detected at both boreholes 9A and 9B in three samples, and lead was detected in all samples in each borehole. In the eastern borehole (9A), closest in proximity to SWMUs 111 and112, the presence of oil and grease was indicated up to 280 mg/kg, and lead was detected between 4.1 and 39 mg/kg at a depth of 10.5 to 11.5 ft bgs. Results from the southern borehole indicate 37 mg/kg of oil and grease at a depth of 43 to 45 ft bgs. All purgeable halocarbons and aromatics were nondetect. The analytical data package was not included in the report.

1988 Remedial Investigation

Additional investigation sampling was completed in 1988 by Walk-Haydel to characterize the underground tank area and the runoff area (SWMUs 111 and 112). During the investigation nine borings (B1, B3, and B4-B10) were completed in the area of SWMU 110, 111, and 112 (Figure I-12, Attachment I). Boreholes B4, B5, and B9 were closest in proximity to SWMUs 111 and 112 (located north of the SWMUs), with B9 located approximately 10 ft north of SWMUs 111 and 112. Boreholes ranged in depth from 5 to 100 ft, and samples were collected every 2 ft to a depth of 11 ft, then every 5 ft to a depth of 31.5 ft when samples were collected every 10 ft to total borehole depth. Samples were analyzed for VOCs and metals; however samples were not analyzed for TPH.

Soil samples collected from B9, approximately 10 ft north of SWMUs 111 and 112, had detections for arsenic, barium, selenium, silver, and cadmium. Arsenic concentrations ranged from 50.7 to 152 mg/kg and were detected to a maximum depth of 45 ft bgs. All detected concentrations of arsenic in B9 exceed the 2012 NMED residential SSL level of 3.90 mg/kg. Barium was detected in a single sample, collected at 5 ft bgs, at a concentration of 857 mg/kg, which is well below the current residential NMED SSL for barium at15,600 mg/kg (NMED, 2012). Cadmium was detected in two samples collected at B9, at depths of surface (0 ft bgs) and 5 ft bgs. Concentrations were 9.0 mg/kg and 9.1 mg/kg for the shallow and 5-ft depths, respectively, which are both well below the NMED residential SSL for cadmium, which is 70.3 mg/kg (NMED, 2012). Selenium was detected at four different depths (7.5, 10, 15, and 30 ft bgs) with concentrations ranging from 134 to 198 mg/kg. All four concentrations detected are below the current residential SSL of 391 mg/kg (NMED, 2012). The maximum depth of detection of silver was 10 ft bgs; two samples had detections of silver with concentrations of 154 and 134 mg/kg (Woodward-Clyde, 1991). Both silver and selenium have an NMED SSL (2012)

of 391 mg/kg. All detections for silver were below the current residential SSL of 391 mg/kg (NMED, 2012).

1991 Remedial Investigation

Woodward-Clyde (1991) collected four surface soil samples (soil borings 1091-1094), as well as four resample soil borings (1095-1098) as part of the RI (Woodward-Clyde, 1991). Boring 1091 and resample boring 1095 were located on the southeastern corner of the OWS. All other samples were collected around SWMU 109. The boreholes were advanced to total depths ranging from 62 to 100 ft. Samples were collected at 5-ft intervals to a depth of 30 ft and then were collected at 10-ft intervals to total depth. Samples were analyzed for TOC, VOCs, TPH, lead, and chromium. No VOCs were detected in any soil samples collected from the two soil borings 1091 and 1095. TPH was detected at concentrations of 27.3 mg/kg and 56.6 mg/kg in borings 1091 and1095, respectively; the TPH concentrations were far below the action level (1,000 mg/kg for jet fuel) (Woodward-Clyde, 1991). Chromium was detected at concentrations ranging from 3.6 to 10 mg/kg (Table II-11, Attachment II) in soil samples from soil boring 1091 (Woodward-Clyde, 1991); the detected concentrations are less than the current 2012 EPA maximum contaminant level-based SSL for total chromium of 180,000 mg/kg. Lead concentrations in the 1091 soil samples were all below the current 2012 NMED residential SSL of 400 mg/kg, with concentrations ranging from 2.2 mg/kg to 6.8 mg/kg.

1996 – 1997 Phases I and II RFI

SWMUs 109, 110, 111, and 112 were grouped together for the Phase I and II RFIs due to their interrelated historical operations (Harza, 1997).

A Phase II RFI was conducted by Harza in October 1996 and February 1997 at the FTA No. 4. The Phase II RFI included a passive gas survey, soil borings, and soil samples at various locations at FTA No. 4. The passive gas survey included installing, retrieving, and analyzing soil gas screening modules at 40 locations at the site.

A total of 19 soil borings (SB01-SB19) were advanced as part of the Phase II RFI, ranging in depth from 20 to 90 ft; the soil boring locations were determined from the results of the passive gas survey. Soil samples were collected during borehole advancement at the surface and then at 10-ft intervals to total borehole depth. Samples were analyzed for VOCs, SVOCs, cyanide, TAL metals, and TRPH. Additionally, representative samples were collected from each borehole for geotechnical analysis; a total of 12 samples were analyzed for particle size analysis and moisture content (Harza, 1997). Soil boring SB14 was the only boring installed within SWMUs 111 and112.

Soil boring SB14 (Figure I-12, Attachment I) was located in the center of SWMUs 111 and 112 at the center of the unlined pit footprint. The total depth of SB14 was 16 ft bgs and a total of three soil samples were collected during drilling. No VOCs, SVOCs, or cyanide were detected in soil samples collected from this borehole. Seventeen metals were detected (Harza, 1997). Table II-12, Attachment II summarizes the soil sample results for SB14. Metal concentrations were compared with NMED Residential SSLs (2012), and no concentrations exceeded SSLs. The maximum TPH concentration detected at SWMUs 111 and 112 from sample SB14-0101

collected at a depth of 0 to 1 ft bgs is 1,040 mg/kg (Woodward-Clyde, 1991). The maximum TPH concentration exceeds the NMED Residential SSL (2012) of 1,000 mg/kg for jet fuel, but less than the industrial value of 2,400 mg/kg. TPH is compared with current 2012 NMED TPH screening guidelines for jet fuel in Table II-12, Attachment II.

2001 Corrective Measures Study

A CMS was completed for the FTA No. 4 in 2001 (Foster Wheeler, 2001). As part of the CMS, the corrective action objective for TPH at SWMUs 111 and 112 was defined as 5,000 mg/kg; this defined value is higher than the SSLs. The corrective action objective in soil is based on a ranking score that incorporates three criteria, depth to groundwater, wellhead protection area, and distance to surface water body for FTA No. 4. The highest TPH concentration detected at SWMUs 111 and 112 (soil boring SB14) was 1,040 mg/kg (Table II-12, Attachment II) at a depth of 1 ft. Based on the site characteristics and potential contaminant sources, the CMS recommended No Action for SWMUs 111 and 112 (Foster Wheeler, 2001).

2004 Phase I Soil Investigation

In 2004, T N & Associates, Inc. (TN&A) performed a Phase I Soil Investigation at FTA No. 4 to confirm previously identified TPH contamination at boring SB14. During the investigation, TN&A collected a total of 34 soil samples from 13 borings for analysis for TPH-DRO. One boring (CAFB-SB14) was located at SWMUs 111 and 112. A single soil boring (CAFB-SB14) was advanced in the center of SWMUs 111 and 112 to a total depth of 10 ft, and two samples were collected, one from 0 to 1 ft bgs and one from 9 to 10 ft bgs. No TPH was detected in either sample collected at CAFB-SB14.

Basis of Determination – SWMUs 111 and 112

SWMUs 111 and 112 proposed for CAC with controls. The OWS and associated leach field have been removed from the SWMU. Residual elevated TPH remains, but is less than the industrial direct exposure concentration.

D. References

Bay West, Inc. & Tetra Tech EC, Inc., 2008, *Draft Letter Report, Voluntary Corrective Action, AGE Maintenance Facility Shop Pad (SWMU 31) and POL Wash Pad (SWMU 127), Cannon Air Force Base, New Mexico*, May.

Foster Wheeler Environmental, Inc., 1999, *Draft Letter Report for Voluntary Corrective Measure Implementation – SWMU 31*, August.

Foster Wheeler Environmental, Inc., 2000, *Preferred Alternative Justification for the Corrective Measures Study SWMUs 109, 110, 111, 112 – Fire Training Area Number Four*, October.

Foster Wheeler Environmental, Inc., 2001, *Final Corrective Measures Study Report for SWMUs 109, 110, 111, and 112-Fire Training Area Four, Cannon Air Force Base, New Mexico,* December.

Harza Environmental Services, 1997, *Phase II RCRA Facility Investigation Report (Draft), Cannon Air Force Base, New Mexico*, August.

New Mexico Environment Department (NMED), 2003, *Resource Conservation and Recovery Act Permit EPA ID NM7572124454 to U.S. Department of the Air Force for Cannon Air Force Base*, Hazardous Waste Bureau, New Mexico Environment Department, Santa Fe, New Mexico, October 14, 2003.

New Mexico Environment Department (NMED), 2006, *Technical Background Document for Development of Soil Screening Levels*, Revision 4.0, Hazardous Waste Bureau, Groundwater Quality Bureau, and Voluntary Remediation Program, Santa Fe, New Mexico, February.

New Mexico Environment Department (NMED), 2007, RE: *Notice of Disapproval Final Report RCRA Facility Investigation for 21 SWMUs, Cannon Air Force Base, New Mexico, EPA ID #NM7572124454, HWB-CAFB-06-007*, July 27.

New Mexico Environment Department (NMED), 2008, RE: *Approval with Direction, RCRA Facility Investigation for 21 SWMUs, Cannon Air Force Base, New Mexico, EPA ID #NM7572124454, HWB-CAFB-06-007*, May 14.

New Mexico Environment Department (NMED), 2009, RE: *RCRA Facility Investigation for 21 SWMUs, Cannon Air Force Base, New Mexico, EPA ID #NM7572124454, HWB-CAFB-09-005*, May 14.

New Mexico Environment Department (NMED), 2010a, *RE: Notice of Disapproval, Remedy Completion Report for SWMU 31 AGE Maintenance Facility, Cannon Air Force Base, New Mexico, February 2010, EPA ID #NM7572124454, HWB-CAFB-09-005,* March 29.

New Mexico Environment Department (NMED), 2010b, *RE: Review of Corrective Measures Study at SWMUs 31, 48A, 77, and 127, June 2000 and Final Letter Report Revision 01, Voluntary Corrective Action AGE Maintenance Facility Shop Pad (SWMU 31) and POL Wash Pad (SWMU 127), July 2008, Cannon Air Force Base, New Mexico, EPA ID #NM7572124454, HWB-CAFB-06-004 and HWB-CAFB-08-003,* June 22.

New Mexico Environment Department (NMED), 2010c, *RE: Notice of Approval, Final RCRA Facility Investigation for 21 SWMUs, Cannon Air Force Base, New Mexico, EPA ID #NM7572124454, HWB-CAFB-06-004 and HWB-CAFB-08-003,* June 7.

New Mexico Environment Department (NMED), 2012, *Risk Assessment Guidance for Site Investigations and Remediation*, Hazardous Waste Bureau and Ground Water Quality Bureau, Santa Fe, New Mexico, February, Table A-1 updated June 2012.

Radian Corporation LLC, 1986, *Installation Restoration Program Phase II – Confirmation/Quantification Stage I, Cannon Air Force Base, New Mexico*, September.

Radian Corporation LLC, 1987, *Soil Removal Investigation Report, AGE Drainage Ditch – Site 15, Cannon Air Force Base, New Mexico,* June.

Tetra Tech EC, Inc., 2009, *Accelerated Corrective Action Work Plan for SWMU 31, Aerospace Ground Equipment (AGE) Maintenance Facility Shop Pad,* July.

Tetra Tech EC, Inc., 2010, *Remedy Completion Report for SWMU 31, Aerospace Ground Equipment (AGE) Maintenance Facility Shop Pad,* February.

URS Greiner Woodward Clyde, 2007, *Corrective Measures Study at SWMUs 31, 48a, 77, and 127, Cannon Air Force Base, New Mexico,* October.

URS Group, Inc., 2005, *Work Plan, Includes: Quality Assurance Project Plan and Site Safety and Health Plan, Supplemental Assessment of Areas of Concern A, B, & C, Cannon AFB, New Mexico Final*, February.

URS Group, Inc., 2007, *Final Revision 1 RFI Report for 21 SWMUs*, Cannon Air Force Base, New Mexico, October.

URS Group, Inc., 2008, *Final Work Plan Addendum RCRA Facility Investigation for SWMUs 34, 78, 85, 91, 95, and 107*, Cannon Air Force Base, New Mexico, March.

URS Group, Inc., 2009, *Final RCRA Facility Investigation for SWMUs 34, 78, 85, 91, 95, and 107 Addendum Report,* Cannon Air Force Base, New Mexico, June.

Walk, Haydel & Associates, Inc., 1990, *Installation Restoration Program. Final Remedial Investigation Report, Cannon Air Force Base, New Mexico,* Prepared under contract with Omaha District, Corps of Engineers; Omaha, Nebraska, for Headquarters, Tactical Air Command, HQ, TAC/DEEV; Langley Air Force Base, Virginia.

Woodward-Clyde Consultants, Inc., 1992, *Remedial Investigation Report for 18 Solid Waste Management Units*. Cannon Air Force Base, New Mexico, Prepared for U.S. Army Corps of Engineers, Omaha District; Omaha, Nebraska, October.

Woodward-Clyde Consultants, Inc., 1994, *RCRA Facility Investigation, Appendix III SWMUs, Phase I,* Cannon Air Force Base, New Mexico.

Woodward-Clyde Consultants, Inc., 1995, *RCRA Facility Investigation, Appendix III SWMUs, Phase II,* Cannon Air Force Base, New Mexico.

Attachment I
Maps and Figures

I. Maps and Figures

Figure I-1 Location Map of Eight SWMUs

Figure I-2 Site Features and Location Map for SWMUs 31 (AGE Maintenance Pad) and 34 (AGE Drainage Ditch)

Figure I-3 RFI Phase I and II Sampling Locations, SWMU 31 (AGE Maintenance Pad)

Figure I-4 Previous Sampling Locations, SWMU 85 (Stormwater Collection Point)

Figure I-5 Previous Sampling Results, SWMU 95 (Northeast Stormwater Drainage Area)

Figure I-6 Site Layout, SWMUs 110, 111, and 112 (Fire Training Area No. 4)

Figure I-7 Voluntary Corrective Action Sampling Locations, SWMU 31 (AGE Maintenance Pad)

Figure I-8 Field Investigation Results at SWMU 34 (AGE Drainage Ditch)

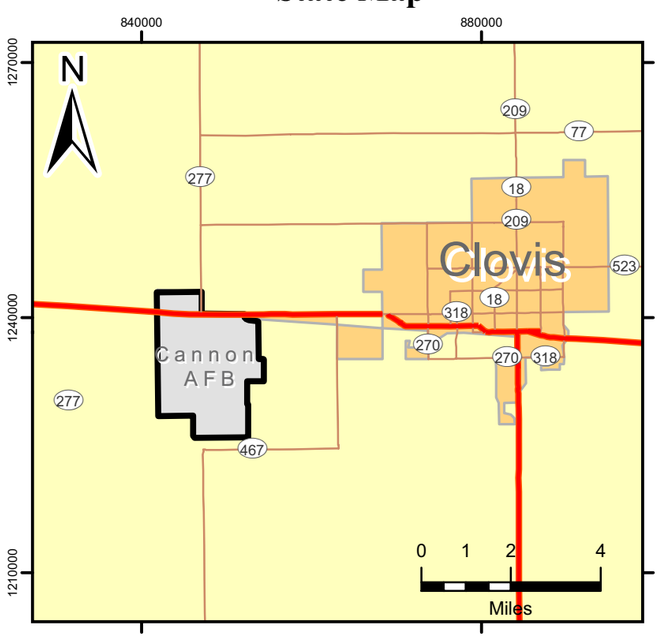
Figure I-9 Previous Sampling Locations, SWMU 78 (Fire Training Area No. 1)

Figure I-10 Previous Sampling Locations with Results, SWMU 78 (Fire Training Area No. 1)

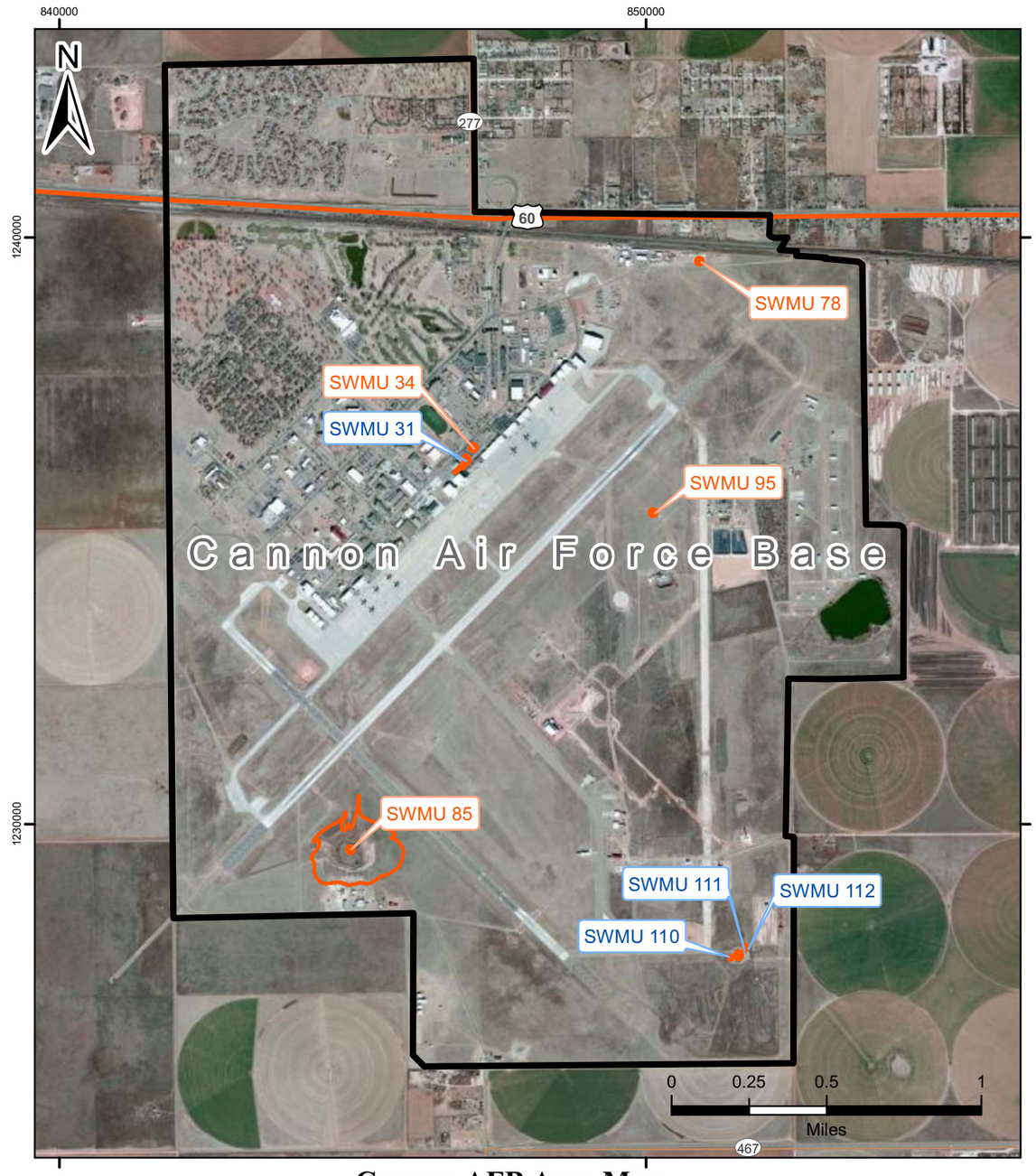
Figure I-11 Previous Sampling Locations, SWMU 95 (Northeast Stormwater Drainage Area)

Figure I-12 Previous Sampling Locations, SWMUs 110, 111, and 112 (Fire Training Area No. 4)

State Map



Local Area Map



Cannon AFB Area Map

LEGEND

- SWMU Boundary
- Cannon AFB Boundary
- City of Clovis
- States (State)
- Cannon AFB
- Interstate
- Highway
- Major Road
- SWMU 78 — CAC Sites With Controls
- SWMU 31 — CAC Sites Without Controls

NOTES

AFB = Air Force Base
AGE = Aerospace Ground Equipment
DOE = U.S. Department of Energy
FTA = Fire Training Area
No. = Number
SWMU = Solid Waste Management Unit
USAF = U.S. Air Force

SWMU	Description
SMWU 31/MY-C031	AGE Maintenance shop pad
SWMU 34/SD-15	AGE drainage ditch
SWMU 78/FT-06	FTA No. 1
SWMU 85/SD-12	Stormwater collection point
SMWU 95/SD-20	NE stormwater drainage area
SMWU 110/FT-C110	Underground waste oil tank No. 2336 at FTA No. 4
SMWU 111/FT-C111	Unlined pit at FTA 4
SMWU 112/FT-C112	Oil/water separator No. 2336 at FTA 4

Revision Date: 04/19/12
Projection : NAD83 State Plane New Mexico East FIPS 3002 Feet

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE MANAGEMENT UNITS

FIGURE I-1

LOCATION MAP OF EIGHT SWMUs

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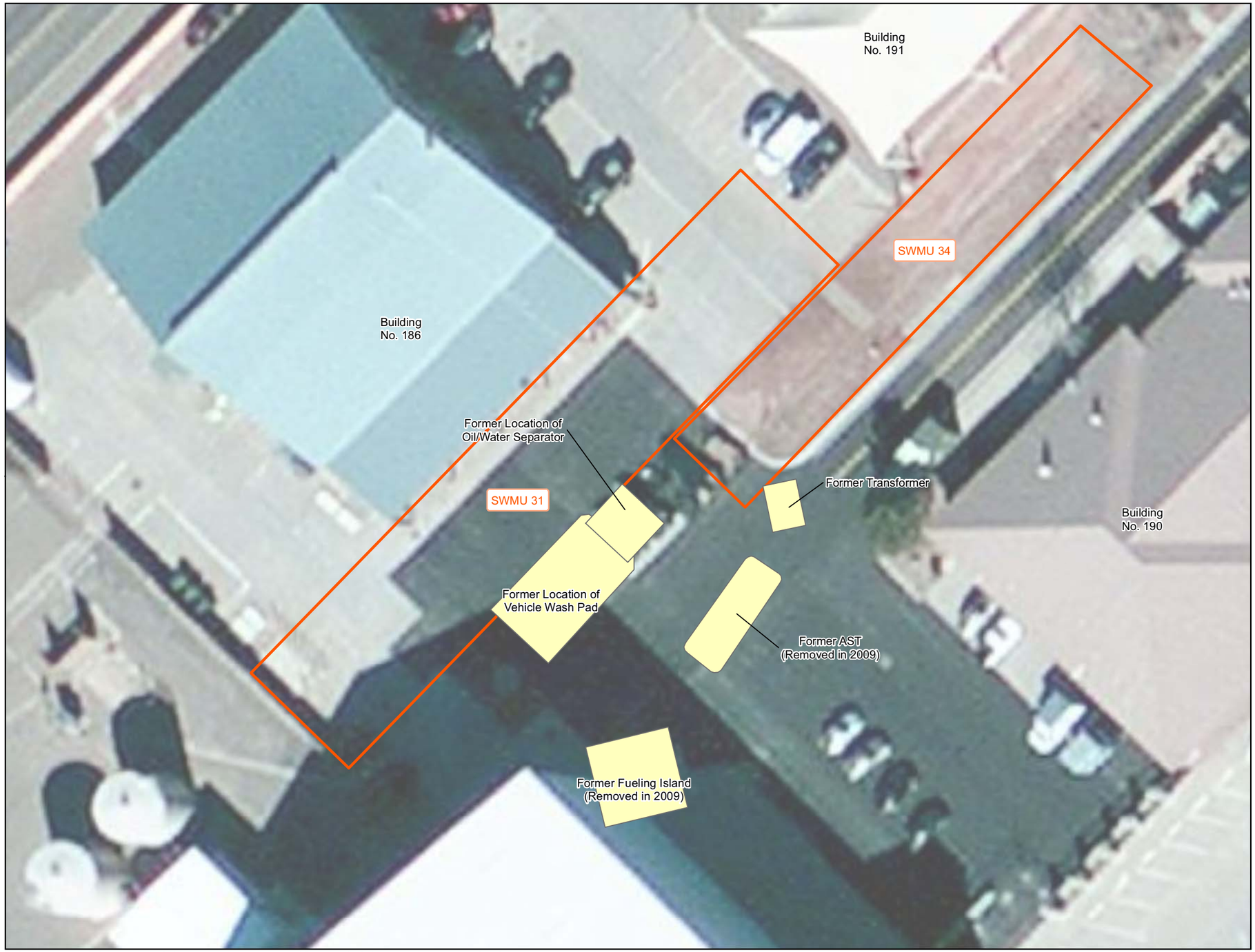


LEGEND

- SWMU Boundary
- Former Structures
- Cannon AFB Boundary
- Highway
- Major Road

NOTES

AGE = Aerospace Ground Equipment
AST = Aboveground Storage Tank
No. = Number
SWMU = Solid Waste Management Unit

Former Structure Locations and SWMU Boundaries are approximated based on available information

N

SITE LOCATION

Revision Date:04/19/12

0 15 30 60
Feet

0 5 10 20
Meters

Projection : NAD_1983_StatePlane_New_Mexico_East_FIPS_3001_Feet

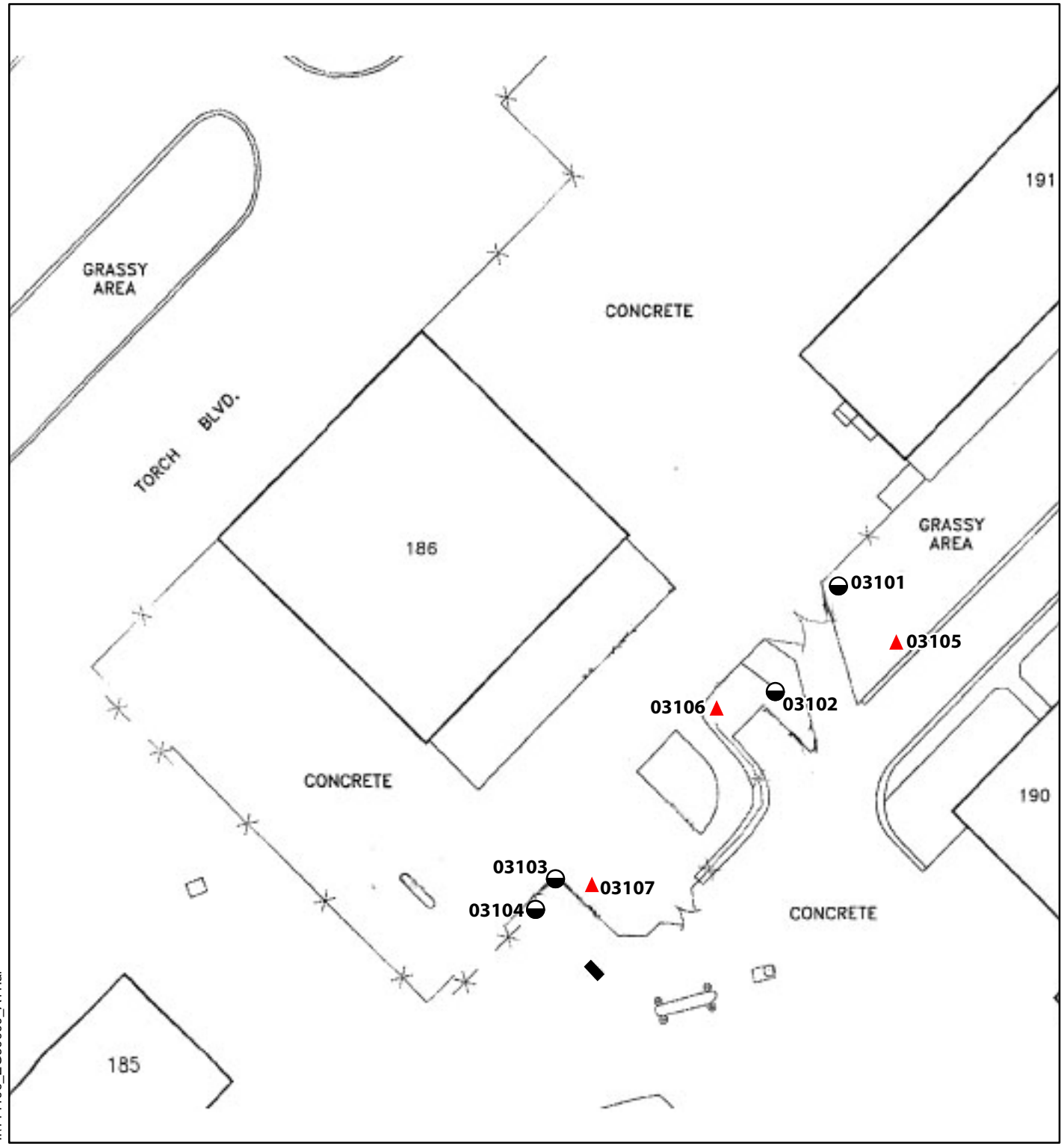
CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE MANGEMENT UNITS

FIGURE I-2

SITE FEATURES AND LOCATION MAP
SWMUs 31 (AGE Maintenance Pad) and 34 (AGE Drainage Ditch)

G:\Midwest_PBC\Cannon_AFB\GIS_Documents\Project_Maps\Cannon_CACP\john.nanceMidwestPBC_EG30000_013_FigI-2_SiteLayoutSWMU31-34.mxd 04/19/12



LEGEND

- RFI Phase I Soil Boring Location (Woodward-Clyde, 1994)
- RFI Phase II Soil Boring Location (Woodward-Clyde, 1995)
- Oil/Water Separator
- Fence

AGE = Aerospace Ground Equipment
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
SWMU = Solid Waste Management Unit

SITE LOCATION

Revision Date: 03/12/12

N

0 50 100
Feet

0 25
Meters

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL EIGHT SOLID WASTE MANAGEMENT UNITS

FIGURE I-3

RFI PHASE I & II
SAMPLING LOCATIONS
SWMU 31
(AGE MAINTENANCE PAD)

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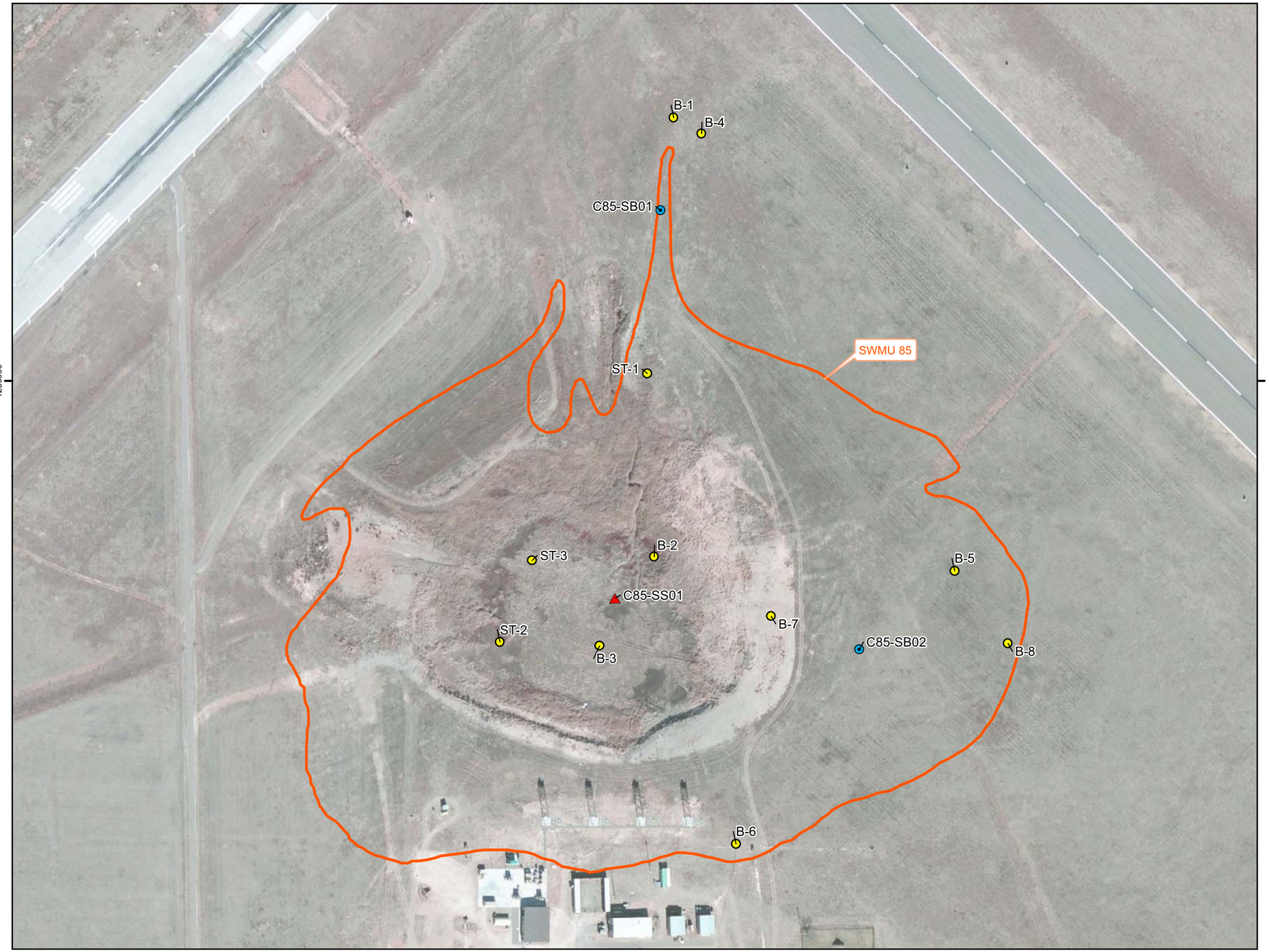


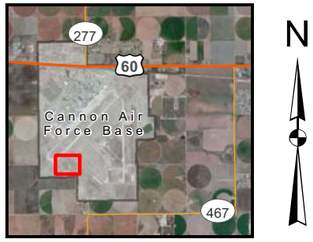
LEGEND

- Soil Boring Location *(Previous Investigation, URS 2008)*
- Soil Boring Location *(RFI Addendum, URS 2008)*
- Surface Soil Sample Location *(RFI Addendum, URS 2008)*
- SWMU Boundary
- Cannon AFB Boundary
- Highway
- Major Road

NOTES

AFB = Air Force Base
SWMU = Solid Waste Management Unit

Sample Locations and SWMU Boundary are approximated based on available information



SITE LOCATION

Revision Date:06/29/12

0 100 200 400 Feet

0 30 60 120 Meters

Projection : NAD_1983_StatePlane_New_Mexico_East_FIPS_3001_Feet

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE MANAGEMENT UNITS

FIGURE I-4

PREVIOUS SAMPLING LOCATIONS
SWMU 85
(STORMWATER COLLECTION POINT)

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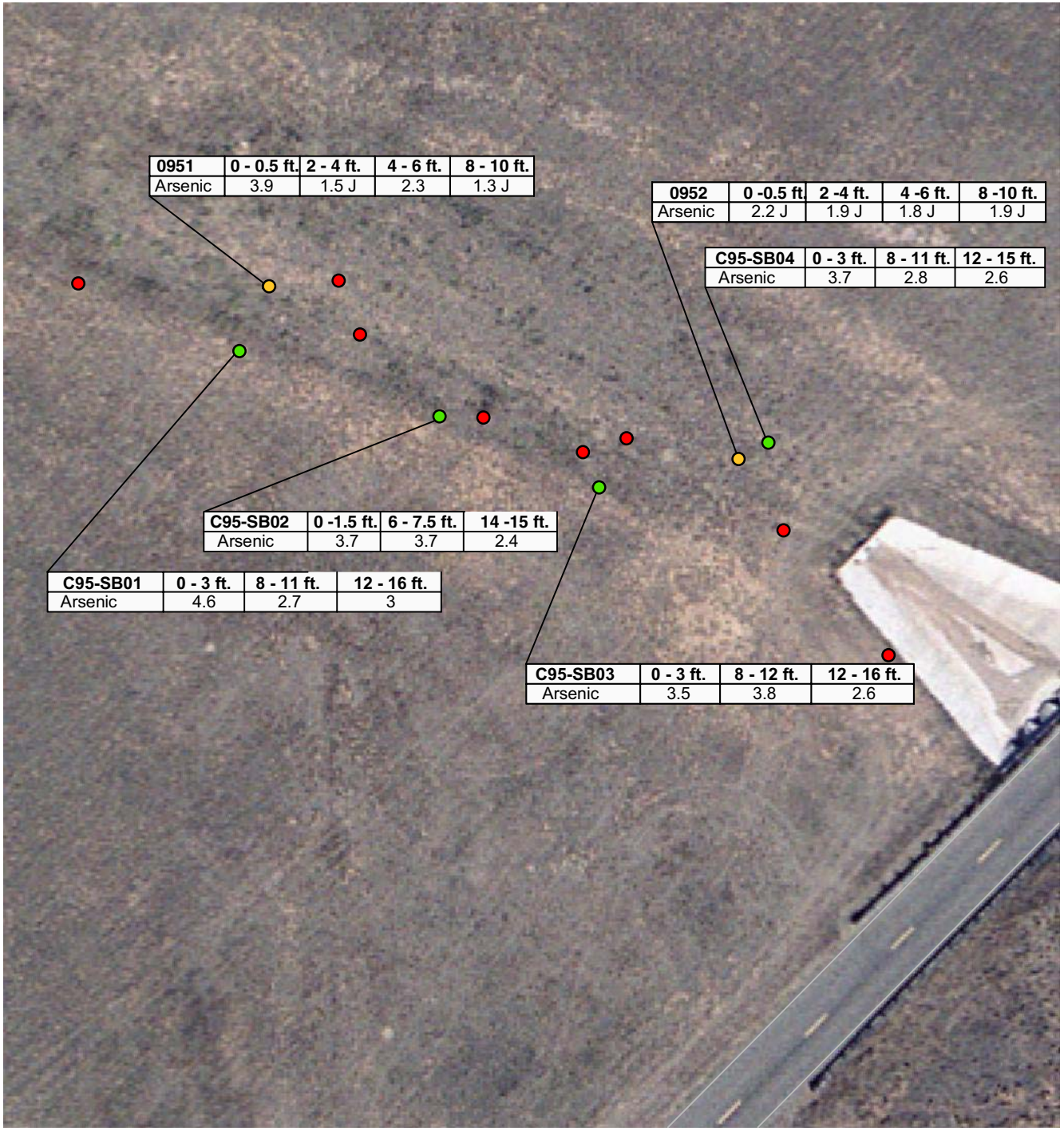

LEGEND

- IRP RI Soil Boring Location (Walk-Haydel, 1990)
- RI Soil Boring Location (Woodward-Clyde, 1992)
- RFI Addendum Soil Boring Location (URS, 2009)

Notes: Sample Results are in mg/kg

ft. = Feet
IRP = Installation Restoration Program
J = Estimated
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
RI = Remedial Investigation
SWMU = Solid Waste Management Unit

Based on additional RFI 2008 sample results RI data for soil borings B-1 through B-11 is considered invalid.

SITE LOCATION

Revision Date: 03/12/12

N

0 25 50
Feet

0 15
Meters

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE
MANAGEMENT UNITS

FIGURE I-5

PREVIOUS SAMPLING RESULTS
SWMU 95 - (NORTHEAST STORMWATER
DRAINAGE AREA)

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LEGEND

- SWMU Boundary
- Former Structure Location
- Landfarm Approximate Boundary
- Fence
- Highway
- Major Road
- Cannon AFB Boundary

NOTES

AFB = Air Force Base
No. = Number
SWMU = Solid Waste Management Unit

Underground Tank, SWMU 109 boundary, Vault Locations and Landfarm Boundary are approximated based on available information

N

SITE LOCATION

Revision Date:02/28/13

0 30 60 120
Feet

0 10 20 40
Meters

Projection : NAD_1983_StatePlane_New_Mexico_East_FIPS_3001_Feet

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE MANAGEMENT UNITS

FIGURE I-6

SITE LAYOUT
SWMUs 109, 110, 111, and 112
(Fire Training Area No. 4)

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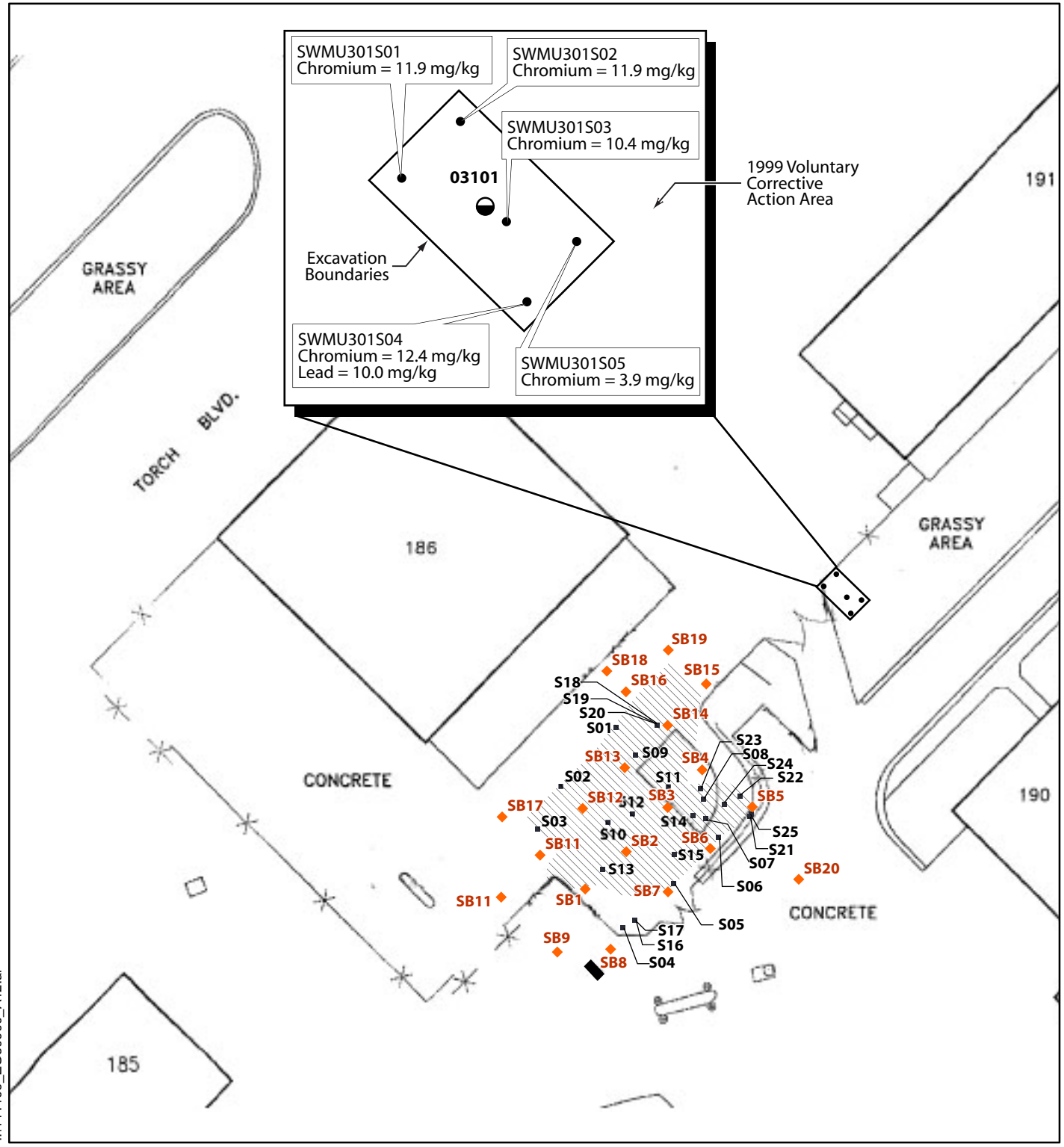

LEGEND

- RFI Phase I Soil Boring Location (Woodward-Clyde, 1994)
- Voluntary Corrective Measures Grab Sample Location (Foster Wheeler, 1999)
- Voluntary Corrective Action DPT Sample Locations (Bay West, Inc. and TetraTech, Inc., 2008)
- Voluntary Corrective Action Confirmation Soil Samples (TetraTech, 2009)
- Excavation Boundary
- Oil/Water Separator
- Fence

DPT = Direct Push Technology
FT = Feet
mg/kg = milligram per kilogram
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
SWMU = Solid Waste Management Unit

SITE LOCATION

Revision Date: 03/12/12

N

0 50 100
Feet

0 25
Meters

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE
PROPOSAL EIGHT SOLID WASTE
MANAGEMENT UNITS

FIGURE I-7

VOLUNTARY CORRECTIVE ACTION
SAMPLING LOCATIONS
SWMU 31
(AGE MAINTENANCE PAD)

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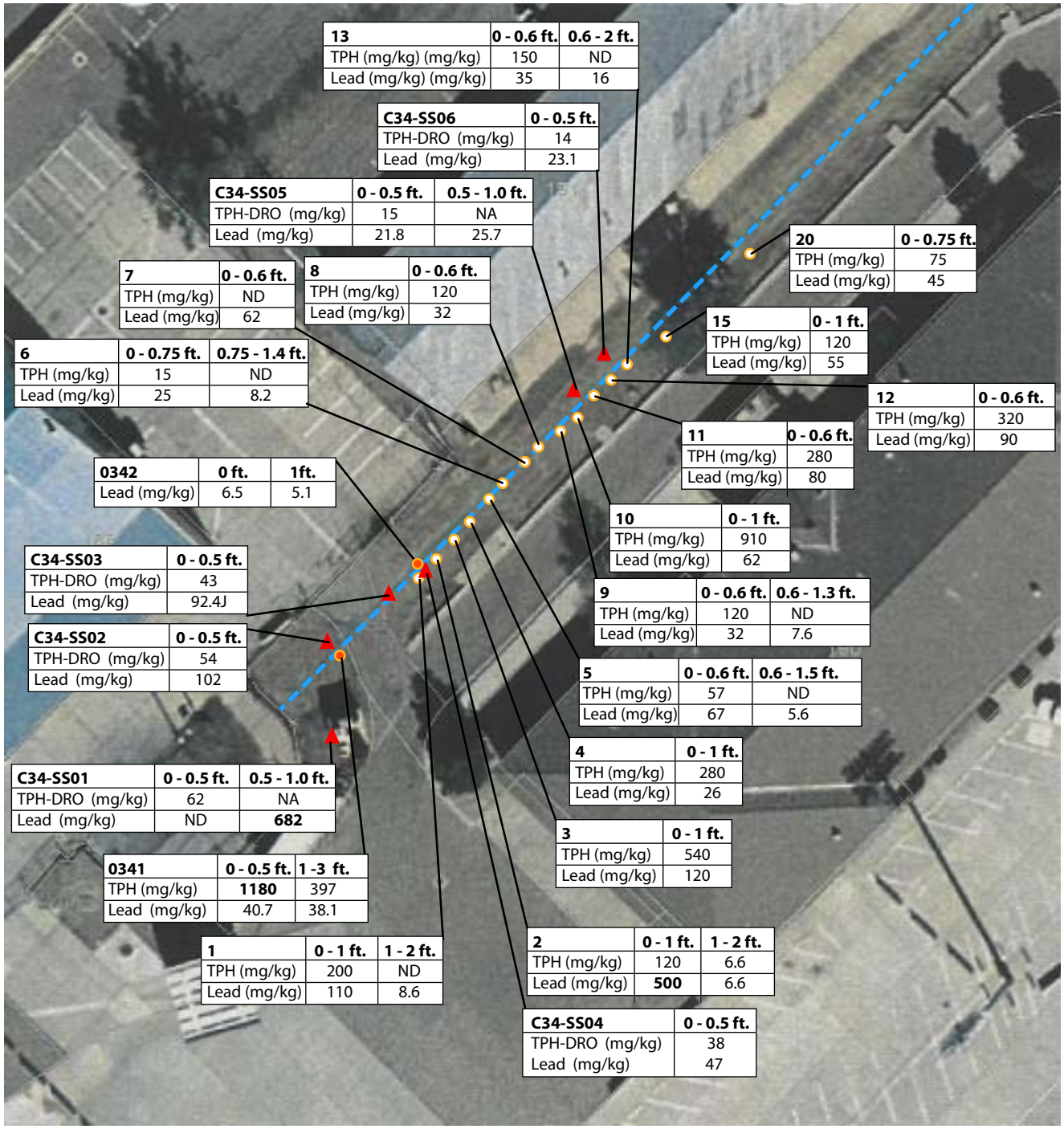
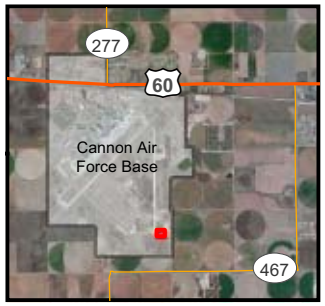


LEGEND

- Soil Boring Locations (Radian, 1987)
- Soil Boring Location (Woodward-Clyde, 1991)
- Soil Locations (URS, 2009)
- Ditch

NOTE: **Bold** Indicates an Exceedance

DRO	=	Diesel Range Organics
ft.	=	Feet
J	=	Estimated
(mg/kg)	=	milligram per kilogram
NA	=	Not Applicable
ND	=	Nondetect
RCRA	=	Resource Conservation and Recovery Act
SWMU	=	Solid Waste Management Unit
TPH	=	Total Petroleum Hydrocarbons



SITE LOCATION

Revision Date: 03/15/12

N

0 50 100
Feet

0 25
Meters

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE MANAGEMENT UNITS

FIGURE I-8

FIELD INVESTIGATION RESULTS AT SWMU 34 (AGE DRAINAGE DITCH)

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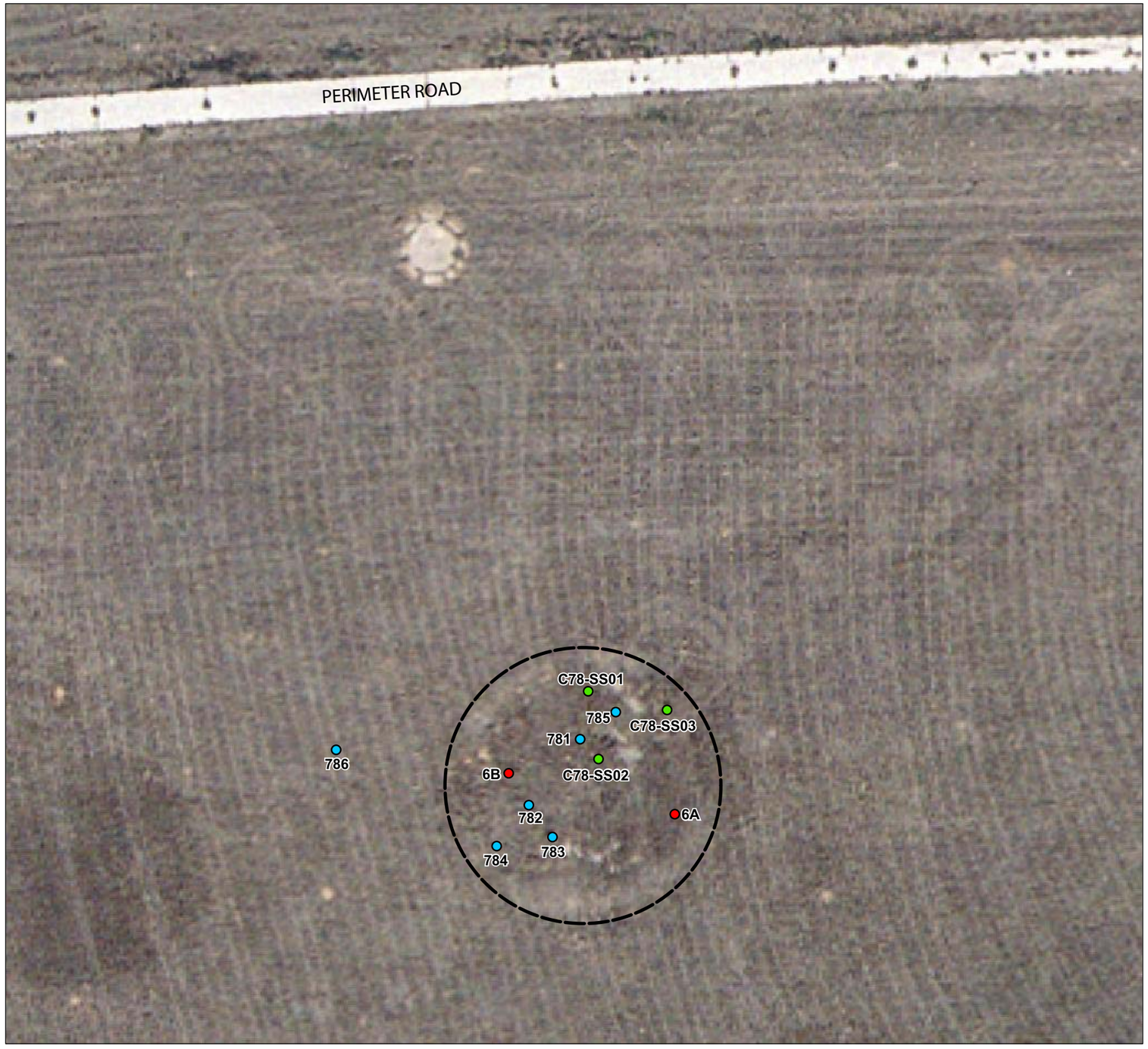
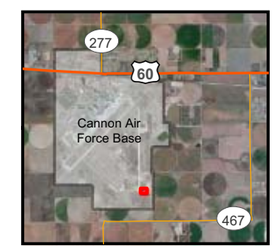


LEGEND

- IRP Phase II Field Investigation Soil Boring Location (Radian, 1986)
- RI Soil Boring Location (Woodward-Clyde, 1992)
- RFI Addendum Surface Soil Location (URS, 2009)
- SWMU Boundary

NOTES

IRP = Installation Restoration Program
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
RI = Remedial Investigation
SWMU = Solid Waste Management Unit



SITE LOCATION

Revision Date:03/08/12

N

0 25 50
Feet

0 15
Meters

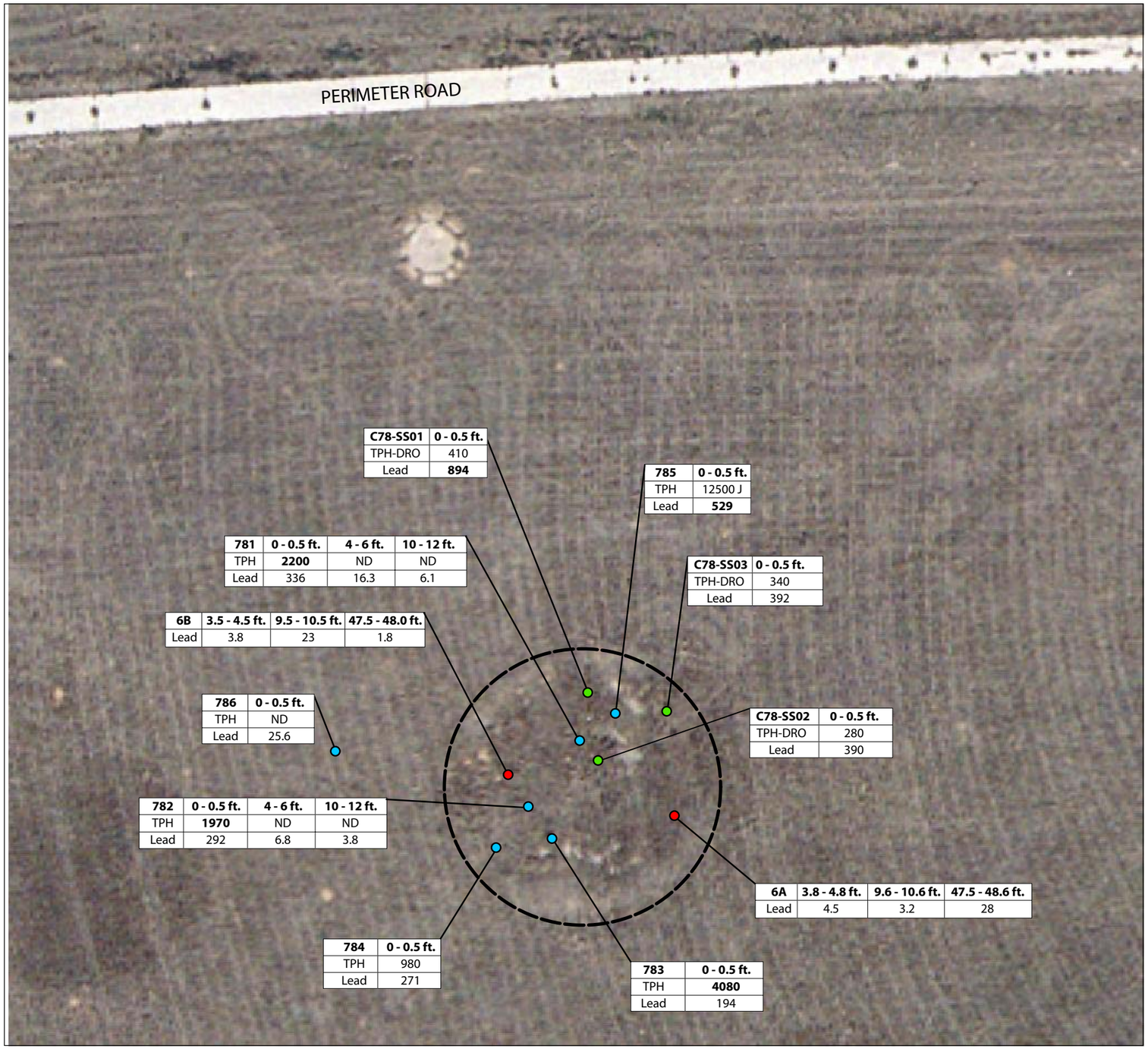
CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE
MANAGEMENT UNITS

FIGURE I-9

PREVIOUS SAMPLING LOCATIONS
SWMU 78 - (FIRE TRAINING AREA NO.1)

I:\144106_EG30000_B1.ai



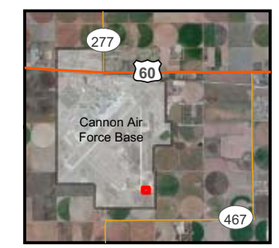
LEGEND

- IRP Phase II Field Investigation Soil Boring Location (Radian, 1986)
- RI Soil Boring Location (Woodward-Clyde, 1992)
- RFI Addendum Surface Soil Location (URS, 2009)
- SWMU Boundary

NOTES

Sample Results are in mg/kg
Bold indicates an exceedance

DRO = Diesel Range Organics
ft. = Feet
IRP = Installation Restoration Program
J = Estimated
mg/kg = Milligram per Kilogram
ND = Nondetect
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
RI = Remedial Investigation
SWMU = Solid Waste Management Unit
TPH = Total Petroleum Hydrocarbons



SITE LOCATION

Revision Date:03/08/12

N

0 25 50
Feet
0 15
Meters

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE
MANAGEMENT UNITS

FIGURE I-10

PREVIOUS SAMPLING LOCATIONS
WITH RESULTS
SWMU 78 - (FIRE TRAINING AREA NO.1)

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LEGEND

- IRP RI Soil Boring Location (Walk-Haydel, 1990)
- RI Soil Boring Location (Woodward-Clyde, 1992)
- RFI Addendum Soil Boring Location (URS, 2009)

IRP = Installation Restoration Program
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
RI = Remedial Investigation
SWMU = Solid Waste Management Unit

SITE LOCATION

Revision Date: 03/12/12

N

0 25 50
Feet

0 15
Meters

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE
MANAGEMENT UNITS

FIGURE I-11

PREVIOUS SAMPLING LOCATIONS
SWMU 95 - (NORTHEAST STORMWATER
DRAINAGE AREA)

I:\144106_EG30000_A1.ai

LEGEND

Sample Locations

- Foster Wheeler Landfarm - 2000
- Harza Consulting - 1997
- Radian - 1985
- Walk, Hydel & Associates - 1988
- Woodward-Clyde - 1991
- SWMU Boundary
- Former Structure Location
- Landfarm Approximate Boundary
- Fence
- Highway
- Major Road
- Cannon AFB Boundary

NOTES

AFB = Air Force Base
No. = Number
SWMU = Solid Waste Management Unit
Underground Tank, SWMU 109 boundary, Vault Locations, Landfarm Boundary, and Radian sample locations are approximated based on available information

N

SITE LOCATION

Revision Date:02/28/13

0 30 60 120
Feet

0 10 20 40
Meters

Projection : NAD_1983_StatePlane_New_Mexico_East_FIPS_3001_Feet

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE MANAGEMENT UNITS

FIGURE I-12

PREVIOUS SAMPLING LOCATIONS
SWMUs 109, 110, 111, and 112
(Fire Training Area No. 4)

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Attachment II
Tables

II. Tables

Table II-1 SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report and 1995 Phase II RFI Report

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TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0311-0000			CAN031-0311-0002			CAN031-0311-0004			CAN031-0311-0008			CAN031-0312-0000			CAN031-0312-0002		
LAB SAMPLE NUMBER					0311830016SA			0311830017SA			0311830018SA			0311830001SA			0311830010SA			0311830011SA		
SAMPLE DEPTH (ft bgs)					0.0 – 0.5			1.5 – 3.5			4.0 – 6.0			8.0 – 10.0			0.0 – 0.5			1.5 – 3.5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																						
Aluminum	8,950	12,214	78,000	1,130,000	5,660	12.5		4,160	24.1		7,690	11.8		3,210	11.2		4,260	10.5		5,430	11.2	
Antimony	3.15	16	31.3	454	1.9	7.5	J	ND	14.4	U	ND		U	ND		U	ND	6.3	U	ND	6.7	U
Arsenic	3.6	4.3	3.9	17.7	3.2	0.62		2.3	0.6		2.4	0.59		1.1	0.56		2.4	0.52		2.9	0.56	
Barium	670	890	15,600	223,000	1,460	1.2	J	120	2.4	J	81.2	1.2	J	327	1.1	J	166	1	J	201	1.1	J
Beryllium	0.78	0.73	156	2,260	0.36	0.25		0.26	0.48	J	0.29	0.24		ND	0.22	U	0.22	0.21		0.27	0.22	
Cadmium	0.435	1.3	70.3	897	8.7	0.62		ND	1.2	U	ND		U	ND		U	0.85	0.52		0.63	0.56	
Calcium	44,800	237,498	NE	NE	6,270	25		205,000	48.1		22,900	23.6		60,300	22.4		48,600	20.9		94,400	22.3	
Chromium [e]	11	13	117,000	1,703,333	130	1.2		4.2	2.4		8.2	1.2		3.8	1.1		9.9	1	J	8	1.1	J
Cobalt [f]	6.6	4.7	23	300	3.4	1.2		2.3	2.4	J	4.4	1.2		1.7	1.1		2.6	1		3.2	1.1	
Copper	18.3	8.3	3,130	45,400	61.4	2.5		2.7	4.8	J	5.9	2.4		2.2	2.2		9.3	2.1		10.9	2.2	
Iron	10,100	13,148	54,800	795,000	7,150	12.5		3,290	24.1		8,140	11.8		3,320	11.2		5,570	10.5		6,420	11.2	
Lead	12	8.7	400	800	**930**	125		3.5	1.2		6.7	1.2		4.5	1.1		46.9	5.2		22.3	5.6	
Magnesium	1,930	19,300	NE	NE	1,150	25		2,450	48.1		2,000	23.6		2,200	22.4		1,810	20.9		2,210	22.3	
Manganese	307	333	1,860	26,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Mercury	0.056	0.019	15.6	73.6	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Nickel	11	15	1,560	22,500	7.2	5		4.9	9.6	J	7.4	4.7		3.6	4.5	J	5.8	4.2		6.9	4.5	
Potassium	2,691	2,512	NE	NE	867	625		666	1,200	J	1,450	590		892	560		1,100	523		954	558	
Selenium	0.26	1.1	391	5,680	ND	1.2	UJ	ND	1.2	UJ	ND	1.2	UJ	0.12	1.1	J	ND	1	UJ	ND	1.1	UJ
Silver	0.4	2.7	391	5,680	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Sodium	102	1,227	NE	NE	ND	625	U	ND	1,200	U	ND		U	ND		U	ND	523	U	ND	558	U
Thallium	0.6	2.65	0.782	11.4	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Vanadium	23	33	391	5,680	13.8	1.2		10.4	2.4		16.4	1.2		11.2	1.1		13.8	1		17.1	1.1	
Zinc	32	31	23,500	341,000	479	2.5		9.2	4.8		18.8	2.4		8	2.2	J	57	2.1		33.5	2.2	

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0312-0004			CAN031-0312-0008			CAN031-0313-0000			CAN031-0313-0002			CAN031-0313-0004			CAN031-0313-0008		
LAB SAMPLE NUMBER					0311830014SA			0311830015SA			0311830002SA			0311830003SA			0311830004SA			0311830005SA		
SAMPLE DEPTH (ft bgs)					4.0 – 6.0			8.0 – 10.0			0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																						
Aluminum	8,950	12,214	78,000	1,130,000	4,210	23.5		5,820	11.4		6,650	12.2		5,740	11.7		4,090	23.3		5,460	11.4	
Antimony	3.15	16	31.3	454	ND		U	ND		U	ND	7.3	U	ND	7	U	ND		U	ND		U
Arsenic	3.6	4.3	3.9	17.7	2.2	0.59		2.6	0.57		**4.4**	0.61		2.2	0.59		2.7	0.58		3	0.57	
Barium	670	890	15,600	223,000	273	2.4	J	237	1.1	J	229	1.2	J	119	1.2	J	130	2.3	J	411	1.1	J
Beryllium	0.78	0.73	156	2,260	ND	0.47	U	0.35	0.23		0.25	0.24		0.25	0.23		0.24	0.47	J	0.53	0.23	
Cadmium	0.435	1.3	70.3	897	ND		U	ND		U	4.4	0.61		ND	0.59	U						
Calcium	44,800	237,498	NE	NE	217,000	47		68,100	22.9		42,400	24.4		108,000	23.4		142,000	46.6		50,700	22.8	
Chromium [e]	11	13	117,000	1,703,333	6.5	2.4		6.1	1.1		24.3	1.2		6	1.2		4.9	2.3		6.1	1.1	
Cobalt [f]	6.6	4.7	23	300	2.4	2.4		3.1	1.1		3.5	1.2		3.2	1.2		2.5	2.3		3	1.1	
Copper	18.3	8.3	3,130	45,400	3.6	4.7	J	3.8	2.3		18.8	2.4		4.7	2.3		2.7	4.7	J	3.6	2.3	
Iron	10,100	13,148	54,800	795,000	3,930	23.5		5,900	11.4		7,950	12.2		5,470	11.7		4,050	23.3		5,580	11.4	
Lead	12	8.7	400	800	5.4	0.59		6.6	0.57		77.7	6.1		4.7	0.59		4	0.58		5.8	1.1	
Magnesium	1,930	19,300	NE	NE	3,250	47		3,970	22.9		2,310	24.4		1,940	23.4		2,500	46.6		2,960	22.8	
Manganese	307	333	1,860	26,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Mercury	0.056	0.019	15.6	73.6	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Nickel	11	15	1,560	22,500	5.7	9.4	J	6.3	4.6		6.8	4.9		5.7	4.7		5.9	9.3	J	6.5	4.6	
Potassium	2,691	2,512	NE	NE	688	1,180		1,090	572		1,550	610		998	586		762	1,170		1,140	570	
Selenium	0.26	1.1	391	5,680	ND	1.2	UJ	ND	1.1	UJ	0.24	1.2	J	ND	1.2	UJ	ND	4.2	UJ	ND	1.1	UJ
Silver	0.4	2.7	391	5,680	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Sodium	102	1,227	NE	NE							193	610	J	ND	586	U	ND		U	ND		U
Thallium	0.6	2.65	0.782	11.4	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Vanadium	23	33	391	5,680	14	2.4		23.4	1.1		16.6	1.2		13.1	1.2		15.4	2.3		22.6	1.1	
Zinc	32	31	23,500	341,000	9.6	4.7		12.9	2.3		85.8	2.4		12.6	2.3		9.8	4.7		12.1	2.3	

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0314-0000			CAN031-0314-0002			CAN031-0314-0004			CAN031-0314-0008			CAN031-3105-0000			CAN031-3105-0005		
LAB SAMPLE NUMBER					0311830006SA			0311830008SA			0311830009SA			0311830019SA			0397140012SA			0397140013SA		
SAMPLE DEPTH (ft bgs)					0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0			0			5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			12/8/1994			12/8/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																						
Aluminum	8,950	12,214	78,000	1,130,000	9,430	11.7		6,090	11.7	J	4,830	23.5		2,160	23.3		9,230	12		10,500	11.5	
Antimony	3.15	16	31.3	454	ND	7	U	ND	7	U	ND		U	ND		U	ND	7.2	UJ	ND	6.9	UJ
Arsenic	3.6	4.3	3.9	17.7	**4.6**	0.59		2.6	0.58		3.1	0.59		1.5	0.58		2.4	1.2		2.3	0.58	
Barium	670	890	15,600	223,000	104	1.2	J	107	1.2	J	1,130	2.4	J	143	2.3	J	237	1.2		657	1.2	
Beryllium	0.78	0.73	156	2,260	0.69	0.23		0.34	0.23		ND	0.47	U	ND	0.47	U	0.38	0.24		0.45	0.23	
Cadmium	0.435	1.3	70.3	897	ND	0.59	U	ND	0.58	U	ND		U	ND		U	1.2	0.6		ND	0.58	U
Calcium	44,800	237,498	NE	NE	4,200	23.5		71,300	23.3	J	156,000	47		222,000	46.5		44,600	24		105,000	23	
Chromium [e]	11	13	117,000	1,703,333	11.8	1.2		6.4	1.2		4.5	2.4		2.3	2.3		11.3	1.2		8.2	1.2	
Cobalt [f]	6.6	4.7	23	300	5.1	1.2		3.2	1.2		2.4	2.4		ND	2.3	U	2.9	1.2		2.1	1.2	
Copper	18.3	8.3	3,130	45,400	7.6	2.3		5.2	2.3	J	2.5	4.7	J	1.5	4.7	J	14.9	2.4		5.6	2.3	
Iron	10,100	13,148	54,800	795,000	10,700	11.7		6,030	11.7	J	4,570	23.5		1,680	23.3		8,700	12		7,590	11.5	
Lead	12	8.7	400	800	9.4	0.59		6.9	1.2	J	4.1	0.59		1.9	0.58		42.7	6	J	7	0.58	J
Magnesium	1,930	19,300	NE	NE	2,130	23.5		1,760	23.3		3,390	47		2,920	46.5		2,310	24		2,620	23	
Manganese	307	333	1,860	26,700	ND		U	ND		U	ND		U	ND		U	234	1.2	J	99.4	1.2	J
Mercury	0.056	0.019	15.6	73.6	ND		U	ND		U	ND		U	ND		U	ND	0.12	U	ND	0.12	U
Nickel	11	15	1,560	22,500	9.7	4.7		7	4.7		6.2	9.4	J	3.6	9.3	J	8.7	4.8		9.3	4.6	
Potassium	2,691	2,512	NE	NE	1,610	587		1,110	583	J	844	1,180	J	ND	1,160	U	1,460	600		1,740	576	
Selenium	0.26	1.1	391	5,680	0.15	1.2	J	0.16	1.2	J	ND	1.2	UJ	ND	1.2	UJ	ND	1.2	UJ	ND	2.3	UJ
Silver	0.4	2.7	391	5,680	ND		U	ND		U	ND		U	ND		U	ND	1.2	U	ND	1.2	U
Sodium	102	1,227	NE	NE	ND	587	U	ND	583	U	ND		U	ND		U	ND	600	U	ND	576	U
Thallium	0.6	2.65	0.782	11.4	ND		U	ND		U	ND		U	ND		U	ND	1.2	UJ	0.13	1.2	J
Vanadium	23	33	391	5,680	21.2	1.2		13.3	1.2		18.7	2.4		6	2.3		17.3	1.2		15.1	1.2	
Zinc	32	31	23,500	341,000	29.8	2.3		13.2	2.3		11.9	4.7		5.6	4.7		114	2.4		21.1	2.3	

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3105-0010			CAN031-3106-0000			CAN031-3106-0005			CAN031-3106-0010			CAN031-3107-0000		
LAB SAMPLE NUMBER					0397140014SA			0397140015SA			0397140016SA			0397140017SA			0398710006SA		
SAMPLE DEPTH (ft bgs)					10			0			5			10			0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/8/1994			12/8/1994			12/8/1994			12/8/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																			
Aluminum	8,950	12,214	78,000	1,130,000	8,700	23.2		10,200	11		3,970	60.3		10,200	11.4		7,550	22.5	
Antimony	3.15	16	31.3	454	ND	13.9	UJ	ND	6.6	UJ	ND	36.2	UJ	ND	6.8	UJ	ND	13.5	U
Arsenic	3.6	4.3	3.9	17.7	2	0.58		3.1	0.55		2.4	0.6		2.5	0.57		3.7	0.56	
Barium	670	890	15,600	223,000	275	2.3		305	1.1		270	6		101	1.1		716	2.2	
Beryllium	0.78	0.73	156	2,260	0.4	0.46	J	0.42	0.22		ND	1.2	U	0.47	0.23		0.46	0.45	
Cadmium	0.435	1.3	70.3	897	ND	1.2	U	3.3	0.55		ND	3	U	ND	0.57	U	1.9	1.1	
Calcium	44,800	237,498	NE	NE	124,000	46.3		46,600	21.9		288,000	121		96,600	22.8		173,000	45	
Chromium [e]	11	13	117,000	1,703,333	5.8	2.3		26.5	1.1		ND	6	U	7.7	1.1		25.6	2.2	
Cobalt [f]	6.6	4.7	23	300	2.2	2.3	J	3.1	1.1		ND	6	U	2.5	1.1		22.2	2.2	
Copper	18.3	8.3	3,130	45,400	4	4.6	J	15.5	2.2		3.9	12.1	J	4.5	2.3		22.5	4.5	
Iron	10,100	13,148	54,800	795,000	6,370	23.2		10,600	11		3,620	60.3		8,050	11.4		8,990	22.5	
Lead	12	8.7	400	800	5.1	1.2	J	138	11		3.1	1.2	J	5.8	1.1		20.7	2.8	J
Magnesium	1,930	19,300	NE	NE	2,910	46.3		2,460	21.9		3,270	121		4,330	22.8		5,230	45	
Manganese	307	333	1,860	26,700	73.2	2.3	J	187	1.1	J	40.7	6	J	112	1.1	J	280	2.2	
Mercury	0.056	0.019	15.6	73.6	ND	0.12	U	ND	0.11	U	ND	0.12	U	ND	0.11	U	ND	0.11	U
Nickel	11	15	1,560	22,500	8.6	9.3	J	10.1	4.4		8.8	24.1	J	9	4.6		15.8	9	
Potassium	2,691	2,512	NE	NE	1,430	1,160		2,200	548		639	3,010	J	1,830	571		994	1,120	J
Selenium	0.26	1.1	391	5,680	ND	1.2	UJ	ND	1.1	UJ	ND	2.4	UJ	ND	1.1	U	ND	5.6	UJ
Silver	0.4	2.7	391	5,680	ND	2.3	U	ND	1.1	U	ND	6	U	ND	1.1	U	ND	2.2	U
Sodium	102	1,227	NE	NE	ND	1,160	U	ND	548	U	ND	3,010	U	ND	571	U	ND	1,120	U
Thallium	0.6	2.65	0.782	11.4	0.12	1.2	J	ND	1.1	UJ	ND	1.2	UJ	ND	1.1	UJ	ND	2.2	UJ
Vanadium	23	33	391	5,680	15.4	2.3		19.9	1.1		12.2	6		23.7	1.1		21	2.2	
Zinc	32	31	23,500	341,000	16.4	4.6		139	2.2		8.5	12.1	J	20.6	2.3		44.7	4.5	

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3107-0005			CAN031-3107-0010			CAN031-3107-6005		
LAB SAMPLE NUMBER					0398710002SA			0398710004SA			0398710010SA		
SAMPLE DEPTH (ft bgs)					5			10			5.0 (Duplicate)		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/13/1994			12/13/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Aluminum	8,950	12,214	78,000	1,130,000	7,550	23		4,160	58.9		7,050	23	
Antimony	3.15	16	31.3	454	ND	13.8	UJ	ND	35.3	UJ	ND	13.8	UJ
Arsenic	3.6	4.3	3.9	17.7	3	0.57		1	0.59		2.8	0.57	
Barium	670	890	15,600	223,000	267	2.3	J	344	5.9	J	208	2.3	J
Beryllium	0.78	0.73	156	2,260	0.43	0.46	J	ND	1.2	U	0.45	0.46	J
Cadmium	0.435	1.3	70.3	897	1	1.1	J	ND	2.9	U	5.2	1.1	
Calcium	44,800	237,498	NE	NE	120,000	45.9		289,000	118		133,000	46	
Chromium [e]	11	13	117,000	1,703,333	5.6	2.3		ND	5.9	U	4.9	2.3	
Cobalt [f]	6.6	4.7	23	300	2.8	2.3		2.6	5.9	J	2.6	2.3	
Copper	18.3	8.3	3,130	45,400	4.9	4.6		ND	11.8	U	5.2	4.6	
Iron	10,100	13,148	54,800	795,000	6,410	23		2,930	58.9		6,120	23	
Lead	12	8.7	400	800	4.7	0.57	J	3.3	0.59	J	4.8	0.57	J
Magnesium	1,930	19,300	NE	NE	3,050	45.9		4,820	118		3,070	46	
Manganese	307	333	1,860	26,700	86.5	2.3		81.6	5.9		89	2.3	
Mercury	0.056	0.019	15.6	73.6	ND	0.11	U	ND	0.12	U	ND	0.11	U
Nickel	11	15	1,560	22,500	7.5	9.2	J	7.4	23.6	J	8.8	9.2	J
Potassium	2,691	2,512	NE	NE	1,180	1,150		706	2,940	J	1,180	1,150	
Selenium	0.26	1.1	391	5,680	ND	2.3	UJ	ND	1.2	U	ND	5.7	UJ
Silver	0.4	2.7	391	5,680	ND	2.3	U	ND	5.9	U	ND	2.3	U
Sodium	102	1,227	NE	NE	ND	1,150	U	ND	2,940	U	ND	1,150	U
Thallium	0.6	2.65	0.782	11.4	ND	1.1	UJ	ND	1.2	UJ	ND	1.1	UJ
Vanadium	23	33	391	5,680	18	2.3		10	5.9		18.8	2.3	
Zinc	32	31	23,500	341,000	18.7	4.6		8.2	11.8	J	20.8	4.6	

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0311-0000			CAN031-0311-0002			CAN031-0311-0004			CAN031-0311-0008			CAN031-0312-0000			CAN031-0312-0002		
LAB SAMPLE NUMBER					0311830016SA			0311830017SA			0311830018SA			0311830001SA			0311830010SA			0311830011SA		
SAMPLE DEPTH (ft bgs)					0.0 – 0.5			1.5 – 3.5			4.0 – 6.0			8.0 – 10.0			0.0 – 0.5			1.5 – 3.5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																						
Acetone	NE	NE	66,600	868,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzene	NE	NE	15.4	84.7	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Bromodichloromethane	NE	NE	5.41	30.1	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Bromoform	NE	NE	616	2,420	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Bromomethane	NE	NE	16.5	86.5	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Carbon disulfide	NE	NE	1,530	8,330	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Carbon tetrachloride	NE	NE	10.8	59.8	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chlorobenzene	NE	NE	376	2,120	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chloroethane	NE	NE	29,800	141,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chloroform	NE	NE	5.86	32.7	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chloromethane	NE	NE	275	1,290	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dibromochloromethane	NE	NE	12.1	62.4	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1-Dichloroethane	NE	NE	64.5	359	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1-Dichloroethene	NE	NE	449	2,290	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichloroethene (total)[f]	NE	NE	700	9,200	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Ethylbenzene	NE	NE	68.4	378	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Hexanone	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Methyl-2-pentanone	NE	NE	5,820	73,800	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Methylene chloride	NE	NE	409	4,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Styrene	NE	NE	7,280	50,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.01	U	ND	0.0058	U	ND	0.01	U	ND	0.01	U	ND	0.01	U	ND	0.0056	U
Toluene	NE	NE	5,270	57,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Trichloroethene	NE	NE	8.77	41.3	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Vinyl acetate	NE	NE	2,560	12,300	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Vinyl chloride	NE	NE	0.728	26.1	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Xylenes (total)	NE	NE	814	3,980	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0312-0004			CAN031-0312-0008			CAN031-0313-0000			CAN031-0313-0002			CAN031-0313-0004			CAN031-0313-0008		
LAB SAMPLE NUMBER					0311830014SA			0311830015SA			0311830002SA			0311830003SA			0311830004SA			0311830005SA		
SAMPLE DEPTH (ft bgs)					4.0 – 6.0			8.0 – 10.0			0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																						
Acetone	NE	NE	66,600	868,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzene	NE	NE	15.4	84.7	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Bromodichloromethane	NE	NE	5.41	30.1	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Bromoform	NE	NE	616	2,420	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Bromomethane	NE	NE	16.5	86.5	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Carbon disulfide	NE	NE	1,530	8,330	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Carbon tetrachloride	NE	NE	10.8	59.8	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chlorobenzene	NE	NE	376	2,120	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chloroethane	NE	NE	29,800	141,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chloroform	NE	NE	5.86	32.7	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chloromethane	NE	NE	275	1,290	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dibromochloromethane	NE	NE	12.1	62.4	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1-Dichloroethane	NE	NE	64.5	359	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1-Dichloroethene	NE	NE	449	2,290	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichloroethene (total)[f]	NE	NE	700	9,200	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Ethylbenzene	NE	NE	68.4	378	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Hexanone	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Methyl-2-pentanone	NE	NE	5,820	73,800	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Methylene chloride	NE	NE	409	4,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Styrene	NE	NE	7,280	50,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.006	U	ND	0.01	U	0.0036	0.0061		ND	0.01	U	ND	0.006	U	ND	0.01	U
Toluene	NE	NE	5,270	57,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Trichloroethene	NE	NE	8.77	41.3	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Vinyl acetate	NE	NE	2,560	12,300	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Vinyl chloride	NE	NE	0.728	26.1	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Xylenes (total)	NE	NE	814	3,980	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0314-0000			CAN031-0314-0002			CAN031-0314-0004			CAN031-0314-0008			CAN031-3105-0000			CAN031-3105-0005		
LAB SAMPLE NUMBER					0311830006SA			0311830008SA			0311830009SA			0311830019SA			0397140012SA			0397140013SA		
SAMPLE DEPTH (ft bgs)					0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0			0			5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			12/8/1994			12/8/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																						
Acetone	NE	NE	66,600	868,000	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
Benzene	NE	NE	15.4	84.7	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Bromodichloromethane	NE	NE	5.41	30.1	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Bromoform	NE	NE	616	2,420	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Bromomethane	NE	NE	16.5	86.5	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
Carbon disulfide	NE	NE	1,530	8,330	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Chlorobenzene	NE	NE	376	2,120	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Chloroethane	NE	NE	29,800	141,000	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
Chloroform	NE	NE	5.86	32.7	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Chloromethane	NE	NE	275	1,290	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
Dibromochloromethane	NE	NE	12.1	62.4	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,1-Dichloroethane	NE	NE	64.5	359	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,1-Dichloroethene	NE	NE	449	2,290	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,2-Dichloroethene (total)[f]	NE	NE	700	9,200	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Ethylbenzene	NE	NE	68.4	378	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
2-Hexanone	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
4-Methyl-2-pentanone	NE	NE	5,820	73,800	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
Methylene chloride	NE	NE	409	4,700	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Styrene	NE	NE	7,280	50,000	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.01	U	ND	0.0058	U	ND	0.006	U	ND	0.006	U	ND	0.006	U	ND	0.0058	U
Toluene	NE	NE	5,270	57,700	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Trichloroethene	NE	NE	8.77	41.3	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Vinyl acetate	NE	NE	2,560	12,300	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
Vinyl chloride	NE	NE	0.728	26.1	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
Xylenes (total)	NE	NE	814	3,980	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3105-0010			CAN031-3106-0000			CAN031-3106-0005			CAN031-3106-0010			CAN031-3107-0000		
LAB SAMPLE NUMBER					0397140014SA			0397140015SA			0397140016SA			0397140017SA			0398710006SA		
SAMPLE DEPTH (ft bgs)					10			0			5			10			0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/8/1994			12/8/1994			12/8/1994			12/8/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																			
Acetone	NE	NE	66,600	868,000	ND	0.012	U	ND	0.011	U	0.0026	0.012	J	ND	0.011	U	0.21	0.11	
Benzene	NE	NE	15.4	84.7	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Bromoform	NE	NE	616	2,420	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Bromomethane	NE	NE	16.5	86.5	ND	0.012	U	ND	0.011	U	ND	0.012	U	ND	0.011	U	ND	0.11	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.012	U	ND	0.011	U	ND	0.012	U	ND	0.011	U	ND	0.11	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0058	U	ND	0.0055	U	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Chloroethane	NE	NE	29,800	141,000	ND	0.012	U	ND	0.011	U	ND	0.012	U	ND	0.011	U	ND	0.11	U
Chloroform	NE	NE	5.86	32.7	ND	0.0058	U	ND	0.0055	U	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Chloromethane	NE	NE	275	1,290	ND	0.012	U	ND	0.011	U	ND	0.012	U	ND	0.011	U	ND	0.11	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0058	U	ND	0.0055	U	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0058	U	ND	0.0055	U	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0058	U	ND	0.0055	U	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,2-Dichloroethene (total)[f]	NE	NE	700	9,200	ND	0.0058	U	ND	0.0055	U	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
2-Hexanone	NE	NE	NE	NE	ND	0.012	U	ND	0.011	UJ	ND	0.012	U	ND	0.011	U	ND	0.11	U
4-Methyl-2-pentanone	NE	NE	5,820	73,800	ND	0.012	U	ND	0.011	UJ	ND	0.012	U	ND	0.011	U	ND	0.11	U
Methylene chloride	NE	NE	409	4,700	ND	0.0058	U	ND	0.0055	U	ND	0.0063	U	ND	0.0057	U	ND	0.056	U
Styrene	NE	NE	7,280	50,000	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Toluene	NE	NE	5,270	57,700	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.012	U	ND	0.011	UJ	ND	0.012	U	ND	0.011	U	ND	0.11	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.012	U	ND	0.011	U	ND	0.012	U	ND	0.011	U	ND	0.11	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	0.13	0.056	

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3107-0005			CAN031-3107-0010			CAN031-3107-6005		
LAB SAMPLE NUMBER					0398710002SA			0398710004SA			0398710010SA		
SAMPLE DEPTH (ft bgs)					5			10			5.0 (Duplicate)		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/13/1994			12/13/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Acetone	NE	NE	66,600	868,000	0.0063	0.011	J	0.012	0.012		0.014	0.011	
Benzene	NE	NE	15.4	84.7	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Bromoform	NE	NE	616	2,420	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.012	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.012	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Chloroethane	NE	NE	29,800	141,000	ND	0.011	U	ND	0.012	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.012	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
1,2-Dichloroethene (total)[f]	NE	NE	700	9,200	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
2-Hexanone	NE	NE	NE	NE	ND	0.011	U	ND	0.012	U	ND	0.011	U
4-Methyl-2-pentanone	NE	NE	5,820	73,800	ND	0.011	U	ND	0.012	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Styrene	NE	NE	7,280	50,000	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Toluene	NE	NE	5,270	57,700	0.0055	0.0057	J	0.0049	0.0059	J	ND	0.0057	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.012	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.012	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0311-0000			CAN031-0311-0002			CAN031-0311-0004			CAN031-0311-0008			CAN031-0312-0000			CAN031-0312-0002		
LAB SAMPLE NUMBER					0311830016SA			0311830017SA			0311830018SA			0311830001SA			0311830010SA			0311830011SA		
SAMPLE DEPTH (ft bgs)					0.0 – 0.5			1.5 – 3.5			4.0 – 6.0			8.0 – 10.0			0.0 – 0.5			1.5 – 3.5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																						
Anthracene	NE	NE	17,200	183,000	0.6	4.1	J	ND		U	ND		U	ND		U	ND		U	ND	0.37	U
Acenaphthylene[f]	NE	NE	3,400	33,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Antracene	NE	NE	17,200	183,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzo(a)anthracene	NE	NE	1.48	23.4	**2.4**	4.1	J	ND		U	ND		U	ND		U	ND		U	ND	0.37	U
Benzo(a)pyrene	NE	NE	0.148	2.34	**2.7**	4.1	J	ND		U	ND		U	ND		U	ND		U	ND	0.37	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	**5.6**	4.1		ND		U	ND		U	ND		U	ND		U	0.065	0.37	J
Benzo(g,h,i)perylene	NE	NE	NE	NE	2.6	4.1	J	ND		U	ND		U	ND		U	ND		U	ND	0.37	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzoic acid[f]	NE	NE	240,000	2,500,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzyl alcohol[f]	NE	NE	6,100	62,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Chloroethoxy) methane[f]	NE	NE	180	1,800	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.2	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Butyl benzyl phthalate[f]	NE	NE	260	910	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Carbazole	NE	NE	NE	NE	0.5	4.1	J	ND		U	ND		U	ND		U	ND		U	ND	0.37	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Chloroaniline[f]	NE	NE	2.4	8.6	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Chlorophenol	NE	NE	391	5,680	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chrysene	NE	NE	148	2,340	3.1	4.1	J	ND		U	ND		U	ND		U	ND		U	ND	0.37	U
Di-n-butyl phthalate	NE	NE	6,110	68,400	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Di-n-octyl phthalate	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dibenzofuran[f]	NE	NE	78	1,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,4-Dichlorobenzene	NE	NE	31.7	177	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dichlorophenol	NE	NE	183	2,050	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
3-3'-Dichlorobenzidine	NE	NE	10.8	42.6	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Diethyl phthalate	NE	NE	48,900	547,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dimethyl phthalate	NE	NE	611,000	6,840,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dinitrophenol	NE	NE	122	1,370	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0312-0004			CAN031-0312-0008			CAN031-0313-0000			CAN031-0313-0002			CAN031-0313-0004			CAN031-0313-0008		
LAB SAMPLE NUMBER					0311830014SA			0311830015SA			0311830002SA			0311830003SA			0311830004SA			0311830005SA		
SAMPLE DEPTH (ft bgs)					4.0 – 6.0			8.0 – 10.0			0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																						
Anthracene	NE	NE	17,200	183,000	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Acenaphthylene[f]	NE	NE	3,400	33,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Antracene	NE	NE	17,200	183,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzoic acid[f]	NE	NE	240,000	2,500,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzyl alcohol[f]	NE	NE	6,100	62,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Chloroethoxy) methane[f]	NE	NE	180	1,800	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.2	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Butyl benzyl phthalate[f]	NE	NE	260	910	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Carbazole	NE	NE	NE	NE	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Chloroaniline[f]	NE	NE	2.4	8.6	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Chlorophenol	NE	NE	391	5,680	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chrysene	NE	NE	148	2,340	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Di-n-butyl phthalate	NE	NE	6,110	68,400	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Di-n-octyl phthalate	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dibenzofuran[f]	NE	NE	78	1,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,4-Dichlorobenzene	NE	NE	31.7	177	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dichlorophenol	NE	NE	183	2,050	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
3-3'-Dichlorobenzidine	NE	NE	10.8	42.6	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Diethyl phthalate	NE	NE	48,900	547,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dimethyl phthalate	NE	NE	611,000	6,840,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dinitrophenol	NE	NE	122	1,370	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0314-0000			CAN031-0314-0002			CAN031-0314-0004			CAN031-0314-0008			CAN031-3105-0000			CAN031-3105-0005		
LAB SAMPLE NUMBER					0311830006SA			0311830008SA			0311830009SA			0311830019SA			0397140012SA			0397140013SA		
SAMPLE DEPTH (ft bgs)					0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0			0			5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			12/8/1994			12/8/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																						
Anthracene	NE	NE	17,200	183,000	ND		U	ND	0.38	U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Acenaphthylene[f]	NE	NE	3,400	33,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Antracene	NE	NE	17,200	183,000	ND		U	ND		U	ND		U	ND		U	0.08	0.4	J	ND	0.38	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND		U	ND	0.38	U	ND		U	ND		U	0.49	0.4		ND	0.38	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND		U	ND	0.38	U	ND		U	ND		U	**0.6**	0.4		ND	0.38	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND		U	ND	0.38	U	ND		U	ND		U	1.1	0.4		ND	0.38	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND		U	ND	0.38	U	ND		U	ND		U	0.31	0.4	J	ND	0.38	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND		U	ND		U	ND		U	ND		U	1.3	0.4		ND	0.38	U
Benzoic acid[f]	NE	NE	240,000	2,500,000	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
Benzyl alcohol[f]	NE	NE	6,100	62,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
bis(2-Chloroethoxy) methane[f]	NE	NE	180	1,800	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.2	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND		U	ND		U	ND		U	ND		U	0.34	0.4	J	ND	0.38	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Butyl benzyl phthalate[f]	NE	NE	260	910	ND		U	ND		U	ND		U	ND		U	0.065	0.4	J	ND	0.38	U
Carbazole	NE	NE	NE	NE	ND		U	ND	0.38	U	ND		U	ND		U	0.17	0.4	J	ND	0.38	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
4-Chloroaniline[f]	NE	NE	2.4	8.6	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2-Chlorophenol	NE	NE	391	5,680	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Chrysene	NE	NE	148	2,340	ND		U	ND	0.38	U	ND		U	ND		U	0.79	0.4		ND	0.38	U
Di-n-butyl phthalate	NE	NE	6,110	68,400	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND		U	ND		U	ND		U	ND		U	0.14	0.4	J	ND	0.38	U
Dibenzofuran[f]	NE	NE	78	1,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
1,4-Dichlorobenzene	NE	NE	31.7	177	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
3-3'-Dichlorobenzidine	NE	NE	10.8	42.6	ND		U	ND		U	ND		U	ND		U	ND	0.79	U	ND	0.76	U
Diethyl phthalate	NE	NE	48,900	547,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Dimethyl phthalate	NE	NE	611,000	6,840,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3105-0010			CAN031-3106-0000			CAN031-3106-0005			CAN031-3106-0010			CAN031-3107-0000		
LAB SAMPLE NUMBER					0397140014SA			0397140015SA			0397140016SA			0397140017SA			0398710006SA		
SAMPLE DEPTH (ft bgs)					10			0			5			10			0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/8/1994			12/8/1994			12/8/1994			12/8/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																			
Anthracene	NE	NE	17,200	183,000	ND	0.38	U	0.089	0.36	J	ND	0.4	U	ND	0.38	U	ND	3.7	U
Acenaphthylene[f]	NE	NE	3,400	33,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Antracene	NE	NE	17,200	183,000	ND	0.38	U	0.37	0.36		ND	0.4	U	ND	0.38	U	0.82	3.7	J
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.38	U	**1.6**	0.36		ND	0.4	U	ND	0.38	U	**1.8**	3.7	J
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.38	U	**1.9**	0.36		ND	0.4	U	ND	0.38	U	**1.7**	3.7	J
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	1.2	3.7	J
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.38	U	0.87	0.36		ND	0.4	U	ND	0.38	U	1.1	3.7	J
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.38	U	3.8	0.36		ND	0.4	U	ND	0.38	U	1.8	3.7	J
Benzoic acid[f]	NE	NE	240,000	2,500,000	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
Benzyl alcohol[f]	NE	NE	6,100	62,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
bis(2-Chloroethoxy) methane[f]	NE	NE	180	1,800	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.2	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.38	U	1.2	0.36		ND	0.4	U	ND	0.38	U	2.5	3.7	J
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Butyl benzyl phthalate[f]	NE	NE	260	910	ND	0.38	U	0.073	0.36	J	ND	0.4	U	ND	0.38	U	ND	3.7	U
Carbazole	NE	NE	NE	NE	ND	0.38	U	0.37	0.36		ND	0.4	U	ND	0.38	U	ND	3.7	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
4-Chloroaniline[f]	NE	NE	2.4	8.6	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Chrysene	NE	NE	148	2,340	ND	0.38	U	0.27	0.36	J	ND	0.4	U	ND	0.38	U	2	3.7	J
Di-n-butyl phthalate	NE	NE	6,110	68,400	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.38	U	**0.4**	0.36		ND	0.4	U	ND	0.38	U	**0.63**	3.7	J
Dibenzofuran[f]	NE	NE	78	1,000	ND	0.38	U	0.049	0.36	J	ND	0.4	U	ND	0.38	U	ND	3.7	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
1,4-Dichlorobenzene	NE	NE	31.7	177	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
3-3'-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.76	U	ND	0.72	U	ND	0.8	U	ND	0.75	U	ND	7.4	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Dimethyl phthalate	NE	NE	611,000	6,840,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3107-0005			CAN031-3107-0010			CAN031-3107-6005		
LAB SAMPLE NUMBER					0398710002SA			0398710004SA			0398710010SA		
SAMPLE DEPTH (ft bgs)					5			10			5.0 (Duplicate)		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/13/1994			12/13/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Anthracene	NE	NE	17,200	183,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
Acenaphthylene[f]	NE	NE	3,400	33,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
Antracene	NE	NE	17,200	183,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.38	U	ND	0.39	U	ND	0.38	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.38	U	ND	0.39	U	ND	0.38	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.38	U	ND	0.39	U	ND	0.38	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.38	U	ND	0.39	U	ND	0.38	U
Benzoic acid[f]	NE	NE	240,000	2,500,000	ND	1.8	U	ND	1	U	ND	1.8	U
Benzyl alcohol[f]	NE	NE	6,100	62,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
bis(2-Chloroethoxy) methane[f]	NE	NE	180	1,800	ND	0.38	U	ND	0.39	U	ND	0.38	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.2	ND	0.38	U	ND	0.39	U	ND	0.38	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.38	U	ND	0.39	U	ND	0.38	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.38	U	ND	0.39	U	ND	0.38	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
Butyl benzyl phthalate[f]	NE	NE	260	910	ND	0.38	U	ND	0.39	U	ND	0.38	U
Carbazole	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
4-Chloroaniline[f]	NE	NE	2.4	8.6	ND	0.38	U	ND	0.39	U	ND	0.38	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.38	U	ND	0.39	U	ND	0.38	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.38	U	ND	0.39	U	ND	0.38	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
Chrysene	NE	NE	148	2,340	ND	0.38	U	ND	0.39	U	ND	0.38	U
Di-n-butyl phthalate	NE	NE	6,110	68,400	ND	0.38	U	ND	0.39	U	ND	0.38	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.38	U	ND	0.39	U	ND	0.38	U
Dibenzofuran[f]	NE	NE	78	1,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
1,4-Dichlorobenzene	NE	NE	31.7	177	ND	0.38	U	ND	0.39	U	ND	0.38	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.38	U	ND	0.39	U	ND	0.38	U
3-3'-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.76	U	ND	0.78	U	ND	0.76	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.38	U	ND	0.39	U	ND	0.38	U
Dimethyl phthalate	NE	NE	611,000	6,840,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	ND	1.8	U	ND	1.9	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.8	U	ND	1.9	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.38	U	ND	0.39	U	ND	0.38	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.38	U	ND	0.39	U	ND	0.38	U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0311-0000			CAN031-0311-0002			CAN031-0311-0004			CAN031-0311-0008			CAN031-0312-0000			CAN031-0312-0002		
LAB SAMPLE NUMBER					0311830016SA			0311830017SA			0311830018SA			0311830001SA			0311830010SA			0311830011SA		
SAMPLE DEPTH (ft bgs)					0.0 – 0.5			1.5 – 3.5			4.0 – 6.0			8.0 – 10.0			0.0 – 0.5			1.5 – 3.5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Fluoroanthene	NE	NE	2,290	24,400	5.6	4.1		ND		U	ND		U	ND		U	ND		U	0.055	0.37	J
Fluorene	NE	NE	2,290	24,400	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachlorobenzene	NE	NE	3.04	12	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachlorobutadiene	NE	NE	61.1	246	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachloroethane	NE	NE	42.8	479	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	**2.3**	4.1	J	ND		U	ND		U	ND		U	ND		U	ND	0.37	U
Isophorone	NE	NE	5,120	137,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Methylnaphthalene[f]	NE	NE	230	2,300	ND	4.1	UJ	ND		U	ND		U	ND		U	ND		U	0.045	0.37	J
2-Methylphenol[f]	NE	NE	3,100	31,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Methylphenol[f]	NE	NE	6,100	62,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Naphthalene	NE	NE	43	241	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Nitroaniline[f]	NE	NE	610	6,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
3-Nitroaniline	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Nitroaniline[f]	NE	NE	24	86	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Nitrobenzene	NE	NE	53.5	300	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Nitrophenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Nitrophenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
N-Nitroso-di-n-propylamine[f]	NE	NE	0.069	0.25	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Pentachlorophenol	NE	NE	8.94	30	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Phenanthrene	NE	NE	1,830	20,500	3.2	4.1	J	ND		U	ND		U	ND		U	ND		U	0.044	0.37	J
Phenol	NE	NE	18,300	205,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Pyrene	NE	NE	1,720	18,300	4.6	4.1		ND		U	ND		U	ND		U	ND		U	0.044	0.37	J
1,2,4-Trichlorobenzene	NE	NE	73	367	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4,6-Trichlorophenol	NE	NE	61.1	684	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Total Petroleum Hydrocarbons (mg/kg)																						
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	**3,180**	500		ND	48.1	U	ND		U	ND		U	973	209		81	44.6	

Refer to footnotes at the end of the table.

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0312-0004			CAN031-0312-0008			CAN031-0313-0000			CAN031-0313-0002			CAN031-0313-0004			CAN031-0313-0008		
LAB SAMPLE NUMBER					0311830014SA			0311830015SA			0311830002SA			0311830003SA			0311830004SA			0311830005SA		
SAMPLE DEPTH (ft bgs)					4.0 – 6.0			8.0 – 10.0			0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Fluoroanthene	NE	NE	2,290	24,400	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Fluorene	NE	NE	2,290	24,400	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachlorobenzene	NE	NE	3.04	12	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachlorobutadiene	NE	NE	61.1	246	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachloroethane	NE	NE	42.8	479	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Isophorone	NE	NE	5,120	137,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Methylnaphthalene[f]	NE	NE	230	2,300	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
2-Methylphenol[f]	NE	NE	3,100	31,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Methylphenol[f]	NE	NE	6,100	62,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Naphthalene	NE	NE	43	241	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Nitroaniline[f]	NE	NE	610	6,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
3-Nitroaniline	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Nitroaniline[f]	NE	NE	24	86	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Nitrobenzene	NE	NE	53.5	300	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Nitrophenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Nitrophenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
N-Nitroso-di-n-propylamine[f]	NE	NE	0.069	0.25	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Pentachlorophenol	NE	NE	8.94	30	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Phenanthrene	NE	NE	1,830	20,500	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Phenol	NE	NE	18,300	205,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Pyrene	NE	NE	1,720	18,300	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
1,2,4-Trichlorobenzene	NE	NE	73	367	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4,6-Trichlorophenol	NE	NE	61.1	684	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Total Petroleum Hydrocarbons (mg/kg)																						
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	ND		U	ND		U	**4070**	488		ND	46.9	U	ND		U	ND		U

Refer to footnotes at the end of the table.

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0314-0000			CAN031-0314-0002			CAN031-0314-0004			CAN031-0314-0008			CAN031-3105-0000			CAN031-3105-0005		
LAB SAMPLE NUMBER					0311830006SA			0311830008SA			0311830009SA			0311830019SA			0397140012SA			0397140013SA		
SAMPLE DEPTH (ft bgs)					0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0			0			5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			12/8/1994			12/8/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Fluoroanthene	NE	NE	2,290	24,400	ND		U	ND	0.38	U	ND		U	ND		U	1.3	0.4		ND	0.38	U
Fluorene	NE	NE	2,290	24,400	ND		U	ND		U	ND		U	ND		U	0.047	0.4	J	ND	0.38	U
Hexachlorobenzene	NE	NE	3.04	12	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Hexachlorobutadiene	NE	NE	61.1	246	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Hexachloroethane	NE	NE	42.8	479	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND		U	ND	0.38	U	ND		U	ND		U	0.33	0.4	J	ND	0.38	U
Isophorone	NE	NE	5,120	137,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2-Methylnaphthalene[f]	NE	NE	230	2,300	ND		U	ND	0.38	U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2-Methylphenol[f]	NE	NE	3,100	31,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
4-Methylphenol[f]	NE	NE	6,100	62,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Naphthalene	NE	NE	43	241	ND		U	ND		U	ND		U	ND		U	0.066	0.4	J	ND	0.38	U
2-Nitroaniline[f]	NE	NE	610	6,000	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
4-Nitroaniline[f]	NE	NE	24	86	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2-Nitrophenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
4-Nitrophenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
N-Nitroso-di-n-propylamine[f]	NE	NE	0.069	0.25	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Pentachlorophenol	NE	NE	8.94	30	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND		U	ND	0.38	U	ND		U	ND		U	0.54	0.4		ND	0.38	U
Phenol	NE	NE	18,300	205,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Pyrene	NE	NE	1,720	18,300	ND		U	ND	0.38	U	ND		U	ND		U	0.81	0.4		ND	0.38	U
1,2,4-Trichlorobenzene	NE	NE	73	367	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
2,4,6-Trichlorophenol	NE	NE	61.1	684	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Total Petroleum Hydrocarbons (mg/kg)																						
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	ND	46.9	U	ND	46.6	U	ND		U	ND		U	696	48		ND	46.1	U

Refer to footnotes at the end of the table.

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3105-0010			CAN031-3106-0000			CAN031-3106-0005			CAN031-3106-0010			CAN031-3107-0000		
LAB SAMPLE NUMBER					0397140014SA			0397140015SA			0397140016SA			0397140017SA			0398710006SA		
SAMPLE DEPTH (ft bgs)					10			0			5			10			0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/8/1994			12/8/1994			12/8/1994			12/8/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Fluoroanthene	NE	NE	2,290	24,400	ND	0.38	U	3.8	0.36		ND	0.4	U	ND	0.38	U	4.8	3.7	
Fluorene	NE	NE	2,290	24,400	ND	0.38	U	0.096	0.36	J	ND	0.4	U	ND	0.38	U	ND	3.7	U
Hexachlorobenzene	NE	NE	3.04	12	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Hexachloroethane	NE	NE	42.8	479	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.38	U	0.92	0.36		ND	0.4	U	ND	0.38	U	1.1	3.7	J
Isophorone	NE	NE	5,120	137,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2-Methylnaphthalene[f]	NE	NE	230	2,300	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2-Methylphenol[f]	NE	NE	3,100	31,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
4-Methylphenol[f]	NE	NE	6,100	62,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	1.1	3.7	J
Naphthalene	NE	NE	43	241	ND	0.38	U	0.039	0.36	J	ND	0.4	U	ND	0.38	U	3.1	3.7	J
2-Nitroaniline[f]	NE	NE	610	6,000	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
4-Nitroaniline[f]	NE	NE	24	86	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
Nitrobenzene	NE	NE	53.5	300	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
N-Nitroso-di-n-propylamine[f]	NE	NE	0.069	0.25	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Pentachlorophenol	NE	NE	8.94	30	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.38	U	1.5	0.36		ND	0.4	U	ND	0.38	U	1.9	3.7	J
Phenol	NE	NE	18,300	205,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Pyrene	NE	NE	1,720	18,300	ND	0.38	U	2.7	0.36		ND	0.4	U	ND	0.38	U	3.5	3.7	J
1,2,4-Trichlorobenzene	NE	NE	73	367	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
2,4,6-Trichlorophenol	NE	NE	61.1	684	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Total Petroleum Hydrocarbons (mg/kg)																			
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	ND	46.3	U	914	132		ND	48.2	U	ND	45.7	U	**2,500**	225	

Refer to footnotes at the end of the table.

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3107-0005			CAN031-3107-0010			CAN031-3107-6005		
LAB SAMPLE NUMBER					0398710002SA			0398710004SA			0398710010SA		
SAMPLE DEPTH (ft bgs)					5			10			5.0 (Duplicate)		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/13/1994			12/13/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Fluoroanthene	NE	NE	2,290	24,400	0.12	0.38	J	ND	0.39	U	0.17	0.38	J
Fluorene	NE	NE	2,290	24,400	ND	0.38	U	ND	0.39	U	ND	0.38	U
Hexachlorobenzene	NE	NE	3.04	12	ND	0.38	U	ND	0.39	U	ND	0.38	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.38	U	ND	0.39	U	ND	0.38	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.38	U	ND	0.39	U	ND	0.38	U
Hexachloroethane	NE	NE	42.8	479	ND	0.38	U	ND	0.39	U	ND	0.38	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.38	U	ND	0.39	U	ND	0.38	U
Isophorone	NE	NE	5,120	137,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
2-Methylnaphthalene[f]	NE	NE	230	2,300	ND	0.38	U	ND	0.39	U	ND	0.38	U
2-Methylphenol[f]	NE	NE	3,100	31,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
4-Methylphenol[f]	NE	NE	6,100	62,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
Naphthalene	NE	NE	43	241	ND	0.38	U	ND	0.39	U	ND	0.38	U
2-Nitroaniline[f]	NE	NE	610	6,000	ND	1.8	U	ND	1.9	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.8	U	ND	1.9	U	ND	1.8	U
4-Nitroaniline[f]	NE	NE	24	86	ND	1.8	U	ND	1.9	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.38	U	ND	0.39	U	ND	0.38	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.8	U	ND	1.9	U	ND	1.8	U
N-Nitroso-di-n-propylamine[f]	NE	NE	0.069	0.25	ND	0.38	U	ND	0.39	U	ND	0.38	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.38	U	ND	0.39	U	ND	0.38	U
Pentachlorophenol	NE	NE	8.94	30	ND	1.8	U	ND	1.9	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.38	U	ND	0.39	U	ND	0.38	U
Phenol	NE	NE	18,300	205,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
Pyrene	NE	NE	1,720	18,300	ND	0.38	U	ND	0.39	U	ND	0.38	U
1,2,4-Trichlorobenzene	NE	NE	73	367	ND	0.38	U	ND	0.39	U	ND	0.38	U
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	1.8	U	ND	1.9	U	ND	1.8	U
2,4,6-Trichlorophenol	NE	NE	61.1	684	ND	0.38	U	ND	0.39	U	ND	0.38	U
Total Petroleum Hydrocarbons (mg/kg)													
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	ND	45.9	U	ND	47.1	U	ND	46	U

Refer to footnotes at the end of the table.

TABLE II-1
SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report a
Cannon AFB, New Mexico

Notes:
BOLD indicates an exceedance.
CAN031-0314-0002 = Site code (Cannon AFB, SWMU 31); Soil boring location number (0314); and sample depth (0002= 2 – 4 ft bgs).

AFB	Air Force Base
AGE	Aerospace ground equipment
bgs	Below ground surface
EPA	U.S. Environmental Protection Agency
ft	Feet
ID	Identification
J	Concentration reported below the method reporting limit
MCL	Maximum contaminant level
mg/kg	Milligram per kilogram
NA	Not applicable or not available
ND	Not detected
NE	Not established
NMED	New Mexico Environment Department
NS	Not sampled
Qual	Qualifier
R	Rejected value
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RL	Reporting limit
RSL	Regional screening level
SSL	Soil screening level
SWMU	Solid Waste Management Unit
TPH	Total petroleum hydrocarbon
U	Value is below method detection limit/nondetect
UJ	Estimated as non-detect at instrument detection limit

(a) Woodward-Clyde, 1994, *RCRA Facility Investigation, Appendix III SWMUs, Phase I* , Cannon AFB, New Mexico.
(b) Woodward-Clyde, 1995, *RCRA Facility Investigation, Appendix III SWMUs, Phase II* , Cannon Air Force Base, New Mexico.
(c) Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .
(d) NMED, 2012, Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program, Table A-1 Updated June 2012.
(e) In the absence of a total chromium screening level, chromium (III) is used (NMED, 2012).
(f) Value is the EPA RSL from the Mid-Atlantic Risk Assessment, Regional Screening Levels, on-line risk-based concentrations table for Residential Soil: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm.
(g) Value is for unknown oil from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program.

TABLE II-2

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 2008 VCM Report [a]

Cannon AFB, New Mexico

Sample ID	Sample Depth (ft bgs)	Date Collected	TPH-DRO (Method 8015M) (mg/kg) 1,000[b]			TPH-GRO (Method 8015M) (mg/kg) 1,000[b]			TPH-RRO (Method 8015M) (mg/kg) 1,000[b]		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
031SB0101	0.0 - 2.5	2009[c]	310	10		ND	1		340	20	
031SB0102	2.5 - 5.0	2009[c]	69	10		ND	1		15	20	J
031SB0105	5.0 - 7.5	2009[c]	ND	10		ND	1		ND	20	
031SB0200	0.0 - 2.5	2009[c]	120	10		ND	1		72	20	
031SB0202	2.5 - 5.0	2009[c]	ND	10		ND	1		ND	20	
031SB0300	0.0 - 2.5	2009[c]	160	10		ND	1		64	20	
031SB0302	2.5 - 5.0	2009[c]	ND	10		ND	1		ND	20	
031SB0402	2.5 - 5.0	2009[c]	ND	10		ND	1		ND	20	
031SB0500	0.0 - 2.5	2009[c]	31	10		ND	1		170	20	
031SB0600	0.0 - 3.0	2009[c]	**1700**	10		110	1		410	20	
031SB0603	0.0 - 3.0	2009[c]	10	10	J	ND	1		ND	20	
031SB0700	0.0 - 3.0	2009[c]	ND	10		0.71	1	J	**1200**	20	J
031SB0800	0.0 - 2.5	2009[c]	ND	10		ND	1		130	20	J
031SB0900	0.0 - 3.0	2009[c]	ND	10		ND	1		21	20	J
031SB1000	0.0 - 2.0	2009[c]	7.5	10	J	ND	1		14	20	J
031SB1100	0.0 - 2.0	2009[c]	170	10		9	1		ND	20	
031SB1200	0.0 - 3.0	2009[c]	ND	10		ND	1		13	20	J
031SB1300	0.0 - 2.5	2009[c]	ND	10		ND	1		31	20	
031SB1400	0.0 - 2.5	2009[c]	**1200**	10		150	1		140	20	
031SB1402	2.5 - 5.0	2009[c]	ND	10		ND	1		ND	20	
031SB1500	0.0 - 2.0	2009[c]	ND	10		ND	1		ND	20	
031SB1600	0.0 - 2.5	2009[c]	190	10		66	1		170	20	
031SB1700	0.0 - 2.5	2009[c]	ND	10		ND	1		ND	20	
031SB1800	0.0 - 2.0	2009[c]	110	10		15	1		ND	20	
031SB1900	0.0 - 2.5	2009[c]	ND	10		ND	1		16	20	J
031SB2000	0.0 - 3.0	2009[c]	ND	10		ND	1		ND	20	

TABLE II-2

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 2008 VCM Report [a]

Cannon AFB, New Mexico

Sample ID	Sample Depth (ft bgs)	Date Collected	TPH-DRO (Method 8015M) (mg/kg) 1,000[b]			TPH-GRO (Method 8015M) (mg/kg) 1,000[b]			TPH-RRO (Method 8015M) (mg/kg) 1,000[b]		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
S01	Excavation Sidewall	4/8/2009	1.2	4.7	U	3.7	1.2		NS		
S02	Excavation Sidewall	4/8/2009	1.1	4.5	U	0.37	1.1	U	NS		
S03	Excavation Sidewall	4/8/2009	4.6	4.7	F	0.42	1.2	F	NS		
S04	Excavation Sidewall	4/8/2009	24	4.5		0.4	1.1	F	NS		
S05	Excavation Sidewall	4/8/2009	30	4.2		2.5	1.1		NS		
S06	Excavation Sidewall	4/8/2009	8.9	4.6		0.41	1.1	F	NS		
S07	Excavation Sidewall	4/8/2009	**1500**	24		26	1.2		NS		
S08	Excavation Sidewall	4/8/2009	1.2	4.7	U	0.56	1.2	F	NS		
S09	Base of Excavation	4/8/2009	8.5	4.4		0.045	1.1	F	NS		
S10	Base of Excavation	4/8/2009	2.9	4.5	F	0.67	1.1	F	NS		
S11	Base of Excavation	4/8/2009	1.1	4.5	U	0.37	1.1	U	NS		
S12	Base of Excavation	4/8/2009	82	4.4		1.3	1.1		NS		
S13	Base of Excavation	4/8/2009	17	4.7		1.2	1.2		NS		
S14	Base of Excavation	4/8/2009	250	4.2		2.4	1.1		NS		
S15	Base of Excavation	4/8/2009	1.1	4.5	U	0.37	1.1	U	NS		
S16	Base of Excavation	4/8/2009	71	4.3		11	1.1		NS		
S17	Base of Excavation	4/8/2009	50	4.3		13	1.1		NS		
S18	Base of Excavation	4/10/2009	1.1	4.6	U	1.2	1.2	U	NS		
S19	Base of Excavation	4/10/2009	1.2	4.6	U	1.3	1.2	U	NS		
S20	Base of Excavation	4/10/2009	1.2	4.8	U	0.39	1.2	U	NS		
S21	Base of Excavation	9/16/2009	46	4.4		1.2	1.1		NS		
S22	Base of Excavation	9/16/2009	1.1	4.6	U	0.37	1.2	U	NS		
S23	Base of Excavation	9/16/2009	1.6	4.5	F	0.36	1.1	U	NS		
S24	Base of Excavation	9/16/2009	1.1	4.6	U	0.37	1.1	U	NS		
S25	Base of Excavation	9/16/2009	1.1	4.6	U	0.37	1.1	U	NS		

TABLE II-2
SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 2008 VCM Report a
Cannon AFB, New Mexico

Notes:

BOLD indicates an exceedance.

031SB0101	Site code (SWMU 31); soil boring location number (01); and sample depth (01 = 0.0 - 2.5 ft bgs).
AFB	Air Force Base
AGE	Aerospace Ground Equipment
bgs	Below ground surface
DRO	Diesel range organics
F	Estimated value below the method reporting limit and above the method detection limit
ft	Feet
GRO	Gasoline range organics
ID	Identification
J	Concentration reported below the method reporting limit
mg/kg	Milligram per kilogram
ND	Not detected
NS	Not sampled
Qual	Qualifier
RL	Reporting limit
RRO	Resident-range organics
SWMU	Solid Waste Management Unit
TPH	Total Petroleum Hydrocarbons
U	Value is below method detection limit/nondetect
VCM	Voluntary Corrective Measures

(a) Bay West, Inc. & Tetra Tech EC, Inc., 2008, *Draft Letter Report, Voluntary Corrective Action, AGE Maintenance Facility Shop Pad (SWMU 31) and POL Wash Pad (SWMU 127)* , Cannon AFB, New Mexico. May 2008.

(b) Value is for unknown oil from Table 6-2 of *Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program* .

(c) Precise date of collection could not be determined; however, samples were collected prior to confirmation samples (S01 - S25).

TABLE II-3

SWMU 34 (AGE Drainage Ditch) Soil Analytical Data from 1987 and 2009 Reports [a,b]

Cannon AFB, New Mexico

Sample ID	Sample Depth (ft bgs)	Date Collected	TOTAL PETROLEUM HYDROCARBONS								METALS			
			TOTAL TPH (Method 8015B) (mg/kg)				TPH-GRO (Method 8015B) (mg/kg)				LEAD (Method 6010B) (mg/kg)			
			1,000 Residential TPH Guideline[c]				**1,000** Residential TPH Guideline[c]				**400** Residential SSL Guideline[d]			
			1,000 Industrial TPH Guideline[c]				**1,000** Industrial TPH Guideline[c]				**800** Industrial SSL Guideline[d]			
			Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
1-1	0 - 1	3/12/1987	200	5	NA		NS				110	0.3	NA	
1-2	1 - 2	3/12/1987	ND	5	NA	U	NS				8.6	0.3	NA	
2-1	0 - 1	3/12/1987	120	5	NA		NS				**500**	0.3	NA	
2-2	1 - 2	3/12/1987	6.6	5	NA		NS				6.6	0.3	NA	
3-1	0 - 1	3/12/1987	540	5	NA		NS				120	0.3	NA	
4-1	0 - 1	3/12/1987	280	5	NA		NS				26	0.3	NA	
5-1	0 - 0.6	3/12/1987	57	5	NA		NS				67	0.3	NA	
5-2	0.6 - 1.5	3/12/1987	ND	5	NA	U	NS				5.6	0.3	NA	
6-1	0 - 0.75	3/12/1987	15	5	NA		NS				25	0.3	NA	
6-2	0.75 - 1.4	3/12/1987	ND	5	NA	U	NS				8.2	0.3	NA	
7-1	0 - 0.6	3/12/1987	ND	5	NA	U	NS				62	0.3	NA	
8-1	0 - 0.6	3/12/1987	120	5	NA		NS				32	0.3	NA	
9-1	0 - 0.6	3/12/1987	120	5	NA		NS				32	0.3	NA	
9-2	0.6 - 1.3	3/12/1987	ND	5	NA	U	NS				7.6	0.3	NA	
10-1	0 - 0.9	3/12/1987	910	5	NA		NS				62	0.3	NA	
11-1	0 - 0.6	3/12/1987	280	5	NA		NS				80	0.3	NA	
12-1	0 - 0.6	3/12/1987	320	5	NA		NS				90	0.3	NA	
13-1	0 - 0.6	3/12/1987	150	5	NA		NS				35	0.3	NA	
13-2	0.6 - 2.0	3/12/1987	ND	5	NA	U	NS				16	0.3	NA	
15-1	0 - 1.0	3/13/1987	120	5	NA		NS				55	0.3	NA	
20-1	0 - 0.75	3/13/1987	75	5	NA		NS				45	0.3	NA	
C34-SS01-000	0 - 0.5	10/18/2008	ND	NA	NA		62	1	10		ND	NA	NA	
C34-SS01-006	0.5 - 1.0	10/18/2008	NS				NS				**682**	0.45	25	
C34-SS02-000	0 - 0.5	10/18/2008	ND	NA	NA		54	1	10		102	0.09	5	
C34-SS03-000	0 - 0.5	10/18/2008	ND	NA	NA		43	1	10		92.4	0.09	5	J
C34-SS04-000	0 - 0.5	10/18/2008	ND	NA	NA		38	1	10		47	0.09	5	
C34-SS05-000	0 - 0.5	10/18/2008	ND	NA	NA		15	1	10		21.8	0.09	5	
C34-SS05-006	0.5 - 1.0	10/18/2008	NS				NS				25.7	0.09	5	
C34-SS06-000	0 - 0.5	10/18/2008	ND	NA	NA		14	1	10		23.1	0.09	5	

TABLE II-3
SWMU 34 (AGE Drainage Ditch) Soil Analytical Data from 1987 and 2009 Reports a,b
Cannon AFB, New Mexico

Notes:

BOLD indicates an exceedance.

C34-SS01-006	Site code (Cannon AFB, SWMU 34); Media code (SS = surface soil) and soil boring location number (01); and sample depth (006 = 0.5 - 1 ft bgs).
AFB	Air Force Base
AGE	Aerospace Ground Equipment
bgs	Below ground surface
DRO	Diesel range organics
ft	Feet
ID	Identification
J	Concentration reported below the method reporting limit
mg/kg	Milligram per kilogram
MDL	Method detection limit
NA	Not applicable or not available
ND	Not detected
NMED	New Mexico Environment Department
NS	Not sampled
Qual	Qualifier
RL	Reporting limit
SSL	Soil screening level
SWMU	Solid Waste Management Unit
TPH	Total Petroleum Hydrocarbons
U	Value is below method detection limit/nondetect

(a) URS Group, Inc., 2009 RFI for SWMUs 34, 78, 85, 91, and 107 Addendum Report, Cannon AFB, New Mexico.

(b) Radian Corporation, 1987, Soil Removal Investigation Report, AGE Drainage Ditch, Site 15, Cannon AFB, New Mexico.

(c) Value is for unknown oil from Table 6-2 of *Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program* .

(d) NMED, 2012, *Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program* , Table A-1.

TABLE II-4

SWMU 34 (AGE Drainage Ditch) Soil Analytical Data from 1992 RI Report [a]

Cannon AFB, New Mexico

FIELD ID	Background Concentrations for Surface Soil [b] (mg/kg)	Background Concentration for Subsurface Soil [b] (mg/kg)	Residential SSL/TPH Screening Guideline [c] (mg/kg)	Industrial SSL/TPH Screening Guideline [c] (mg/kg)	0341-000 (0344)			0341-001			0342-001			0342-005			0342-009		
SAMPLE DEPTH (ft bgs)					0.0 – 0.5			1.0 – 3.0			1.5 – 3.0			5.0 – 7.0			9.0 – 11.0		
DATE COLLECTED					24-Oct-91			8-Dec-91			22-Oct-91			22-Oct-91			22-Oct-91		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																			
Aluminum	8,950	12,214	78,000	1,130,000	4,040	NA		8,230	NA		12,500	NA		9,170	NA		NS		
Antimony	3.15	16	31.3	454	5	NA	UJ	5.5	NA	UJ	5.2	NA	UJ	5.2	NA	UJ	NS		
Arsenic	3.6	4.3	3.9	17.7	1.6	NA	J	2.8	NA	J	2	NA	J	2	NA	J	NS		
Barium	670	890	15,600	223,000	148	NA	J	161	NA	J	94.8	NA		163	NA	J	NS		
Beryllium	0.78	0.73	156	2,260	ND	NA		ND	NA		0.55	NA	J	0.49	NA	J	NS		
Cadmium	0.435	1.3	70.3	897	1.3	NA		ND	NA		ND	NA		ND	NA		NS		
Calcium	44,800	237,498	NE	NE	39,200	NA		49,100	NA		69,700	NA		122,000	NA		NS		
Chromium [d]	11	13	117,000	1,703,333	12.3	NA		10.4	NA		10.5	NA		8.1	NA		NS		
Cobalt [e]	6.6	4.7	23	300	2.8	NA	J	2.8	NA	J	4.2	NA	J	3.5	NA	J	NS		
Copper	18.3	8.3	3,130	45,400	15	NA		20.7	NA		ND	NA		ND	NA		NS		
Iron	10,100	13,148	54,800	795,000	4,680	NA	J	6,710	NA	J	8,920	NA		6,450	NA		NS		
Lead	12	8.7	400	800	40.7	NA		38.1	NA		6.5	NA		5.1	NA		NS		
Magnesium	1,930	19,300	NE	NE	1,530	NA		2,330	NA		2,810	NA		3,320	NA		NS		
Manganese	307	333	1,860	26,700	83.9	NA		173	NA	J	120	NA		83.4	NA	J	NS		
Mercury	0.056	0.019	15.6	73.6	ND	NA		ND	NA		ND	NA		ND	NA		NS		
Nickel	11	15	1,560	22,500	ND	NA		7.1	NA	J	9.2	NA		7.1	NA	J	NS		
Potassium	2,691	2,512	NE	NE	860	NA	J	1,570	NA		2,140	NA		1,520	NA		NS		
Selenium	0.26	1.1	391	5,680	2.2	NA	J	R	NA		R	NA		R	NA		NS		
Silver	0.4	2.7	391	5,680	ND	NA		ND	NA		ND	NA		ND	NA		NS		
Sodium	102	1,227	NE	NE	319	NA	J	ND	NA		ND	NA		ND	NA		NS		
Thallium	0.6	2.65	0.782	11.4	0.22	NA	UJ	0.24	NA	UJ	0.23	NA	UJ	0.23	NA	UJ	NS		
Vanadium	23	33	391	5,680	11.8	NA		16	NA		18.1	NA		19.1	NA		NS		
Zinc	32	31	23,500	341,000	237	NA	J	60.3	NA	J	22	NA		16.8	NA	J	NS		
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																			
Phenanthrene	NE	NE	1,830	20,500	0.20	0.710	J	0.37	0.710	J	ND	0.710		ND	0.710		ND	0.710	
Fluoroanthene	NE	NE	2,290	24,400	0.40	0.710	J	0.84	0.710		ND	0.710		ND	0.710		ND	0.710	
Pyrene	NE	NE	1,720	18,300	0.27	0.710	J	0.6	0.710		ND	0.710		ND	0.710		ND	0.710	
Anthracene	NE	NE	17,200	183,000	ND	0.710		0.10	0.710	J	ND	0.710		ND	0.710		ND	0.710	
Chrysene	NE	NE	148	2,340	0.20	0.710	J	0.37	0.710	J	ND	0.710		ND	0.710		ND	0.710	
Benzo(a)anthracene	NE	NE	1.48	23.4	0.16	0.710	J	0.34	0.710	J	ND	0.710		ND	0.710		ND	0.710	
Benzo(a)pyrene	NE	NE	0.148	2.34	**0.20**	0.710	J	**0.31**	0.710	J	ND	0.710		ND	0.710		ND	0.710	
Benzo(b)fluoranthene	NE	NE	1.48	23.4	0.40	0.710	J	0.52	0.710		ND	0.710		ND	0.710		ND	0.710	
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.710		0.02	0.710	J	ND	0.710		ND	0.710		ND	0.710	
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.710		0.053	0.710	J	ND	0.710		ND	0.710		ND	0.710	
Benzo(g,h,i)perylene	NE	NE	NE	NE	0.30	0.710	J	ND	0.710		ND	0.710		ND	0.710		ND	0.710	
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	0.24	0.710	J	0.25	0.710	J	ND	0.710		ND	0.710		ND	0.710	
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																			
Total Petroleum Hydrocarbons [f]	NE	NE	1,000	1,000	**1,180**	NA		397	NA		ND	NA		ND	NA		ND	NA	

Refer to footnotes at the end of the table.

TABLE II-4
SWMU 34 (AGE Drainage Ditch) Soil Analytical Data from 1992 RI Report a
Cannon AFB, New Mexico

Notes:
BOLD indicates an exceedance.

0341	Field ID (SWMU 34); 1 refers to boring number
AFB	Air Force Base
AGE	Aerospace Ground Equipment
bgs	Below ground surface
EPA	U.S. Environmental Protection Agency
ID	Identification
ND	Not detected
ft	Feet
J	Estimated concentration
mg/kg	Milligram per kilogram
NE	Not established
NMED	New Mexico Environment Department
NS	Not sampled
R	Result rejected
RCRA	Resource conservation and Recovery Act
RSL	Regional screening level
RFI	RCRA Facility Investigatio
SWMU	Solid Waste Management Unit
UJ	Estimated as non-detect at instrument detection limit

(a) Woodward-Clyde, 1992, *Final Remedial Investigation Report for 18 Solid Waste Management Units* , Cannon AFB, Clovis, New Mexico.

(b) Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .

(c) NMED, 2012, *Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program* , Table A-1 updated June 2012.

(d) In the absence of a total chromium screening level, chromium (III) is used.

(e) Value is the EPA RSL from the Mid-Atlantic Risk Assessment, Regional Screening Levels, on-line risk-based concentrations table for Residential Soil: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm.

(f) Value is for unknown oil from Table 6-2 of *Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program* .

TABLE II-5

SWMU 78 (Fire Training Area No. 1) Soil Analytical Data from 1986, 1992, and 2009 Reports [a,b,c]

Cannon AFB, New Mexico

FIELD ID	Background Concentrations for Surface Soil [d]	Background Concentration for Subsurface Soil [d]	Residential SSL/TPH Screening Guideline [e]	Industrial SSL/TPH Screening Guideline [e]	0781			0781			0781			0782			0782			0782		
SAMPLE DEPTH (ft bgs)					0.5			6			12			0.5			6			12		
DATE COLLECTED					10/13/1991			10/12/1991			10/12/1991			10/13/1991			10/13/1991			10/13/1991		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																						
Aluminum	8,950	12,214	78,000	1,130,000	26000	NA	J	13200	NA	J	10500	NA	J	10700	NA	J	6240	NA	J	6570	NA	J
Arsenic	3.6	4.3	3.9	17.7	1.9	NA	J	2.7	NA		2.1	NA	J	2	NA	J	1.8	NA	J	1.3	NA	J
Barium	670	890	15,600	223,000	165	NA	J	111	NA	J	392	NA	J	142	NA	J	158	NA	J	101	NA	J
Beryllium	0.78	0.73	156	2,260	ND	NA	U	0.59	NA	J	0.5	NA	J	0.49	NA	J	ND	NA	U	ND	NA	U
Cadmium	0.435	1.3	70.3	897	21.6	NA		ND	NA	U	0.9	NA	U	10.5	NA		ND	NA	U	ND	NA	U
Calcium	44,800	237,498	NE	NE	254	NA		27400	NA		73500	NA		1950	NA		96400	NA		15100	NA	
Chromium [f]	11	13	117,000	1,703,333	39.6	NA		11.3	NA		8.1	NA	J	16.7	NA		5.8	NA		5.6	NA	
Cobalt [g]	6.6	4.7	23	300	2.0	NA	J	5.3	NA	J	3.6	NA	J	4	NA	J	2.2	NA	J	2.2	NA	J
Copper	18.3	8.3	3,130	45,400	710	NA		12.6	NA		7	NA		112	NA		8.9	NA		6	NA	
Iron	10,100	13,148	54,800	795,000	7100	NA		11300	NA		7880	NA		9230	NA		5060	NA		4660	NA	
Lead	12	8.7	400	800	336	NA		16.3	NA		6.1	NA		292	NA		6.8	NA		3.8	NA	
Magnesium	1,930	19,300	NE	NE	1170	NA		2640	NA		4370	NA		1410	NA		2490	NA		4290	NA	
Manganese	307	333	1,860	26,700	225	NA		214	NA		153	NA		171	NA		66	NA		55.5	NA	
Mercury	0.056	0.019	15.6	73.6	ND	NA	U	ND	NA	U	ND	NA	U	0.11	NA		ND	NA	U	ND	NA	U
Nickel	11	15	1,560	22,500	8.8	NA	J	11.6	NA		8.8	NA		7.8	NA	J	5.8	NA	J	7.4	NA	J
Potassium	2,691	2,512	NE	NE	1450	NA		2070	NA	J	1890	NA		1900	NA	J	1110	NA		1420	NA	
Vanadium	23	33	391	5,680	14.4	NA		23.4	NA		25	NA		18.7	NA		16.4	NA		15.2	NA	
Zinc	32	31	23,500	341,000	829	NA		33.7	NA		21.4	NA		21.4	NA		18	NA		13.7	NA	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																						
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS			ND	NA	U	ND	NA	U	NS			NS			NS		
Acetone	NE	NE	66,600	868,000	NS			ND	NA	U	ND	NA	U	NS			NS			NS		
Toluene	NE	NE	5,270	57,700	NS			0.001	NA	J	ND	NA	U	NS			NS			NS		
Trichloroethene	NE	NE	8.77	41.3	NS			ND	NA	U	ND	NA	U	NS			NS			NS		
Vinyl chloride	NE	NE	0.728	26.1	NS			ND	NA	U	ND	NA	U	NS			NS			NS		
Xylenes (total)	NE	NE	814	3,980	NS			ND	NA	U	ND	NA	U	NS			NS			NS		
TOTAL PETROLEUM HYDROCARBONS/ORGANICS (mg/kg)																						
Total Petroleum Hydrocarbons	NE	NE	1,000 [h]	1,000 [h]	2200	NA		ND	NA	U	ND	NA	U	1970	NA		ND	NA	U	ND	NA	U
TPH-DRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
TPH-GRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
Oil and Grease	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
Purgeable Organics	NE	NE	NE	NE	NS			NS			NS			NS			NS			NS		
PESTICIDES (mg/kg)																						
4,4-DDD [i]	NE	NE	20.3	79.8	15	NA	J	0.023	NA		ND	NA	U	0.091	NA		ND	NA	UJ	ND	NA	UJ
4,4-DDE [j]	NE	NE	14.3	56.3	0.57	NA		ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	UJ	ND	NA	UJ
4,4-DDT [k]	NE	NE	17.2	78.1	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U
Alpha Chlordane [l]	NE	NE	16.2	71.9	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U
Gamma Chlordane [l]	NE	NE	16.2	71.9	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U

TABLE II-5

SWMU 78 (Fire Training Area No. 1) Soil Analytical Data from 1986, 1992, and 2009 Reports [a,b,c]

Cannon AFB, New Mexico

FIELD ID	Background Concentrations for Surface Soil [d]	Background Concentration for Subsurface Soil [d]	Residential SSL/TPH Screening Guideline [e]	Industrial SSL/TPH Screening Guideline [e]	0783			0784			0785			0786			0787			0788		
SAMPLE DEPTH (ft bgs)					0.5			0.5			0.5			0.5			0.5			0.5		
DATE COLLECTED					10/12/1991			10/13/1991			10/13/1991			10/13/1991			12/16/1991			12/7/1991		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																						
Aluminum	8,950	12,214	78,000	1,130,000	10200	NA	J	9110	NA	J	14200	NA	J	13900	NA	J	NS			NS		
Arsenic	3.6	4.3	3.9	17.7	1.8	NA	J	1.6	NA	J	1.7	NA	J	2.5	NA	J	NS			NS		
Barium	670	890	15,600	223,000	115	NA	J	132	NA	J	220	NA	J	83.5	NA	J	NS			NS		
Beryllium	0.78	0.73	156	2,260	ND	NA	U	0.53	NA	J	ND	NA	U	ND	NA	U	NS			NS		
Cadmium	0.435	1.3	70.3	897	3.3	NA		7.7	NA		4.1	NA		ND	NA	U	NS			NS		
Calcium	44,800	237,498	NE	NE	1450	NA		1290	NA		832	NA	J	12200	NA		NS			NS		
Chromium [f]	11	13	117,000	1,703,333	14.2	NA		13.4	NA		29.1	NA		12.1	NA		NS			NS		
Cobalt [g]	6.6	4.7	23	300	3.3	NA	J	2.5	NA		1.9	NA		4.5	NA	J	NS			NS		
Copper	18.3	8.3	3,130	45,400	52	NA		84.7	NA		385	NA		13	NA		NS			NS		
Iron	10,100	13,148	54,800	795,000	8950	NA		7500	NA		6580	NA		11400	NA		NS			NS		
Lead	12	8.7	400	800	194	NA		271	NA		529	NA		25.6	NA		NS			NS		
Magnesium	1,930	19,300	NE	NE	1390	NA		1290	NA		96.8	NA	J	2020	NA		NS			NS		
Manganese	307	333	1,860	26,700	99.5	NA		74.6	NA		51.1	NA		198	NA		NS			NS		
Mercury	0.056	0.019	15.6	73.6	0.12	NA		ND	NA	U	ND	NA	U	ND	NA	U	NS			NS		
Nickel	11	15	1,560	22,500	6.8	NA		5.6	NA		5.9	NA	J	8.8	NA	J	NS			NS		
Potassium	2,691	2,512	NE	NE	1880	NA	J	1710	NA	J	1110	NA	J	2570	NA	J	NS			NS		
Vanadium	23	33	391	5,680	19.2	NA		15.4	NA		14.1	NA		24.3	NA		NS			NS		
Zinc	32	31	23,500	341,000	126	NA		154	NA		614	NA		33.3	NA	J	NS			NS		
VOLATILE ORGANIC COMPOUNDS (mg/kg)																						
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS			NS			NS			0.001	NA	J	ND	NA	U	ND	NA	UJ
Acetone	NE	NE	66,600	868,000	NS			NS			NS			ND	NA	U	ND	NA	U	0.014	NA	J
Toluene	NE	NE	5,270	57,700	NS			NS			NS			0.01	NA	J	ND	NA	U	ND	NA	UJ
Trichloroethene	NE	NE	8.77	41.3	NS			NS			NS			0.002	NA	J	ND	NA	U	0.003	NA	J
Vinyl chloride	NE	NE	0.728	26.1	NS			NS			NS			ND	NA	U	ND	NA	U	0.011	NA	J
Xylenes (total)	NE	NE	814	3,980	NS			NS			NS			0.004	NA	J	ND	NA	U	ND	NA	UJ
TOTAL PETROLEUM HYDROCARBONS/ORGANICS (mg/kg)																						
Total Petroleum Hydrocarbons	NE	NE	1,000 [h]	1,000 [h]	4080	NA		980	NA		12500	NA	J	ND	NA	U	95	NA		ND	NA	U
TPH-DRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
TPH-GRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
Oil and Grease	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
Purgeable Organics	NE	NE	NE	NE	NS			NS			NS			NS			NS			NS		
PESTICIDES (mg/kg)																						
4,4-DDD [i]	NE	NE	20.3	79.8	2.0	NA		0.66	NA		0.16	NA		ND	NA	U	NS			NS		
4,4-DDE [j]	NE	NE	14.3	56.3	ND	NA	U	0.058	NA	J	0.11	NA		0.0011	NA	J	NS			NS		
4,4-DDT [k]	NE	NE	17.2	78.1	ND	NA	U	ND	NA	U	ND	NA	U	0.0028	NA	J	NS			NS		
Alpha Chlordane [l]	NE	NE	16.2	71.9	ND	NA	U	ND	NA	U	ND	NA	U	0.0016	NA	J	NS			NS		
Gamma Chlordane [l]	NE	NE	16.2	71.9	ND	NA	U	ND	NA	U	ND	NA	U	0.0012	NA	J	NS			NS		

TABLE II-5

SWMU 78 (Fire Training Area No. 1) Soil Analytical Data from 1986, 1992, and 2009 Reports [a,b,c]

Cannon AFB, New Mexico

FIELD ID	Background Concentrations for Surface Soil [d]	Background Concentration for Subsurface Soil [d]	Residential SSL/TPH Screening Guideline [e]	Industrial SSL/TPH Screening Guideline [e]	7810			7811			6A			6A			6A			6B		
SAMPLE DEPTH (ft bgs)					0.5			0.5			1			2			3			1		
DATE COLLECTED					12/7/1991			12/16/1991			1985[m]			1985[m]			1985[m]			1985[m]		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																						
Aluminum	8,950	12,214	78,000	1,130,000	NS			NS			NS			NS			NS			NS		
Arsenic	3.6	4.3	3.9	17.7	NS			NS			NS			NS			NS			NS		
Barium	670	890	15,600	223,000	NS			NS			NS			NS			NS			NS		
Beryllium	0.78	0.73	156	2,260	NS			NS			NS			NS			NS			NS		
Cadmium	0.435	1.3	70.3	897	NS			NS			NS			NS			NS			NS		
Calcium	44,800	237,498	NE	NE	NS			NS			NS			NS			NS			NS		
Chromium [f]	11	13	117,000	1,703,333	NS			NS			NS			NS			NS			NS		
Cobalt [g]	6.6	4.7	23	300	NS			NS			NS			NS			NS			NS		
Copper	18.3	8.3	3,130	45,400	NS			NS			NS			NS			NS			NS		
Iron	10,100	13,148	54,800	795,000	NS			NS			NS			NS			NS			NS		
Lead	12	8.7	400	800	NS			NS			4.5	NA		3.2	NA		28	NA		3.8	NA	
Magnesium	1,930	19,300	NE	NE	NS			NS			NS			NS			NS			NS		
Manganese	307	333	1,860	26,700	NS			NS			NS			NS			NS			NS		
Mercury	0.056	0.019	15.6	73.6	NS			NS			NS			NS			NS			NS		
Nickel	11	15	1,560	22,500	NS			NS			NS			NS			NS			NS		
Potassium	2,691	2,512	NE	NE	NS			NS			NS			NS			NS			NS		
Vanadium	23	33	391	5,680	NS			NS			NS			NS			NS			NS		
Zinc	32	31	23,500	341,000	NS			NS			NS			NS			NS			NS		
VOLATILE ORGANIC COMPOUNDS (mg/kg)																						
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	NA	U	ND	NA	U	NS			NS			NS			NS		
Acetone	NE	NE	66,600	868,000	NS			0.01	NA	J	NS			NS			NS			NS		
Toluene	NE	NE	5,270	57,700	ND	NA	U	ND	NA	U	NS			NS			NS			NS		
Trichloroethene	NE	NE	8.77	41.3	0.001	NA	J	ND	NA	U	NS			NS			NS			NS		
Vinyl chloride	NE	NE	0.728	26.1	ND	NA	U	ND	NA	U	NS			NS			NS			NS		
Xylenes (total)	NE	NE	814	3,980	0.002	NA	J	ND	NA	U	NS			NS			NS			NS		
TOTAL PETROLEUM HYDROCARBONS/ORGANICS (mg/kg)																						
Total Petroleum Hydrocarbons	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
TPH-DRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
TPH-GRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
Oil and Grease	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			2800	NA		1700	NA		520	NA	
Purgeable Organics	NE	NE	NE	NE	NS			NS			NS			ND	NA	U	ND	NA	U	ND	NA	U
PESTICIDES (mg/kg)																						
4,4-DDD [i]	NE	NE	20.3	79.8	NS			NS			NS			NS			NS			NS		
4,4-DDE [j]	NE	NE	14.3	56.3	NS			NS			NS			NS			NS			NS		
4,4-DDT [k]	NE	NE	17.2	78.1	NS			NS			NS			NS			NS			NS		
Alpha Chlordane [l]	NE	NE	16.2	71.9	NS			NS			NS			NS			NS			NS		
Gamma Chlordane [l]	NE	NE	16.2	71.9	NS			NS			NS			NS			NS			NS		

TABLE II-5

SWMU 78 (Fire Training Area No. 1) Soil Analytical Data from 1986, 1992, and 2009 Reports [a,b,c]

Cannon AFB, New Mexico

FIELD ID	Background Concentrations for Surface Soil [d]	Background Concentration for Subsurface Soil [d]	Residential SSL/TPH Screening Guideline [e]	Industrial SSL/TPH Screening Guideline [e]	6B			6B			C78-SS01			C78-SS02			C78-SS03		
SAMPLE DEPTH (ft bgs)					2			3			0			0			0		
DATE COLLECTED					1985[m]			1985[m]			10/20/2008			10/20/2008			10/20/2008		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																			
Aluminum	8,950	12,214	78,000	1,130,000	NS			NS			NS			NS			NS		
Arsenic	3.6	4.3	3.9	17.7	NS			NS			NS			NS			NS		
Barium	670	890	15,600	223,000	NS			NS			NS			NS			NS		
Beryllium	0.78	0.73	156	2,260	NS			NS			NS			NS			NS		
Cadmium	0.435	1.3	70.3	897	NS			NS			NS			NS			NS		
Calcium	44,800	237,498	NE	NE	NS			NS			NS			NS			NS		
Chromium [f]	11	13	117,000	1,703,333	NS			NS			NS			NS			NS		
Cobalt [g]	6.6	4.7	23	300	NS			NS			NS			NS			NS		
Copper	18.3	8.3	3,130	45,400	NS			NS			NS			NS			NS		
Iron	10,100	13,148	54,800	795,000	NS			NS			NS			NS			NS		
Lead	12	8.7	400	800	23	NA		1.8	NA		**894**	50		390	25		392	25	
Magnesium	1,930	19,300	NE	NE	NS			NS			NS			NS			NS		
Manganese	307	333	1,860	26,700	NS			NS			NS			NS			NS		
Mercury	0.056	0.019	15.6	73.6	NS			NS			NS			NS			NS		
Nickel	11	15	1,560	22,500	NS			NS			NS			NS			NS		
Potassium	2,691	2,512	NE	NE	NS			NS			NS			NS			NS		
Vanadium	23	33	391	5,680	NS			NS			NS			NS			NS		
Zinc	32	31	23,500	341,000	NS			NS			NS			NS			NS		
VOLATILE ORGANIC COMPOUNDS (mg/kg)																			
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS			NS			NS			NS			NS		
Acetone	NE	NE	66,600	868,000	NS			NS			NS			NS			NS		
Toluene	NE	NE	5,270	57,700	NS			NS			NS			NS			NS		
Trichloroethene	NE	NE	8.77	41.3	NS			NS			NS			NS			NS		
Vinyl chloride	NE	NE	0.728	26.1	NS			NS			NS			NS			NS		
Xylenes (total)	NE	NE	814	3,980	NS			NS			NS			NS			NS		
TOTAL PETROLEUM HYDROCARBONS/ORGANICS (mg/kg)																			
Total Petroleum Hydrocarbons	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS		
TPH-DRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			410	50		280	50		340	50	
TPH-GRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			ND	NA	U	ND	NA	U	ND	NA	U
Oil and Grease	NE	NE	1,000 [h]	1,000 [h]	14	NA		310	NA		NS			NS			NS		
Purgeable Organics	NE	NE	NE	NE	ND	NA	U	ND	NA	U	NS			NS			NS		
PESTICIDES (mg/kg)																			
4,4-DDD [i]	NE	NE	20.3	79.8	NS			NS			NS			NS			NS		
4,4-DDE [j]	NE	NE	14.3	56.3	NS			NS			NS			NS			NS		
4,4-DDT [k]	NE	NE	17.2	78.1	NS			NS			NS			NS			NS		
Alpha Chlordane [l]	NE	NE	16.2	71.9	NS			NS			NS			NS			NS		
Gamma Chlordane [l]	NE	NE	16.2	71.9	NS			NS			NS			NS			NS		

TABLE II-5
SWMU 78 (Fire Training Area No. 1) Soil Analytical Data from 1986, 1992, and 2009 Reports a,b,c
Cannon AFB, New Mexico

Notes:

BOLD indicates an exceedance.

C78-SS01	Site code (Cannon AFB, SWMU 78); Media code (SS = surface soil); soil boring location number (01).
AFB	Air Force Base
bgs	Below ground surface
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethylene
DDT	Dichlorodiphenyltrichloroethane
DRO	Diesel range organics
EPA	U.S. Environmental Protection Agency
ft	Feet
GRO	Gasoline range organics
ID	Identification
J	Concentration reported below the method reporting limit
mg/kg	Milligram per kilogram
ND	Not detected
NE	Not established
NMED	New Mexico Environment Department
No.	Number
Qual	Qualifier
RCRA	Resource Conservation and Recovery Act
RL	Reporting limit
RSL	Regional screening level
SSL	Soil screening level
SWMU	Solid Waste Management Unit
TPH	Total Petroleum Hydrocarbons
U	Value is below method detection limit/nondetect
UJ	Estimated as non-detect at instrument detection limit

(a) Radian, 1986, *Installation Restoration Program Phase II – Confirmation/Quantification Stage I* , Cannon Air Force Base, New Mexico, September.
(b) Woodward-Clyde, 1992, *Remedial Investigation Report for 18 Solid Waste Management Units* , Cannon Air Force Base, New Mexico, October.
(c) URS Group, Inc., 2009, *Final RCRA Facility Investigation for SWMUs 34, 78, 85, 91, 95, and 107 Addendum Report,* Cannon Air Force Base, New Mexico, June.
(d) Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .
(e) NMED, 2012, Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program, Table A-1 Updated June 2012.
(f) In the absence of a total chromium screening level, chromium (III) is used. (NMED,2012)
(g) Value is the EPA RSL from the Mid-Atlantic Risk Assessment, Regional Screening Levels, on-line risk-based concentrations table for Residential Soil: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm.
(h) Value is for unknown oil from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program.
(i) SSLs used are for "DDD"
(j) SSLs used are for "DDE"
(k) SSLs used are for "DDT"
(l) SSLs used are for "Chlordane"
(m) Precise date of collection could not be determined.

TABLE II-6

SWMU 85 (Stormwater Collection Point) Soil Analytical Data from 1997, 2007, and 2009 Reports [a,b, c]

Cannon AFB, New Mexico

Sample ID	Sample Depth (ft bgs)	Date Collected	METALS			
			ARSENIC (mg/kg)			
			4.3	Background Concentration[e]		
			3.9	Residential SSL Guideline[d]		
			17.7	Industrial SSL Guideline[d]		
			Result	MDL	RL	Qual
ST-1	3 - 4	1985[f]	1.6	NA	NA	
ST-2	3 - 4	1985[f]	1.8	NA	NA	
ST-3	3 - 4	1985[f]	1.5	NA	NA	
S12-B1	0	1/13/1988	**50.3**	NA	NA	
S12-B1	2	1/13/1988	**51.9**	NA	NA	
S12-B1	4	1/13/1988	**88.4**	NA	NA	
S12-B2	1.5	12/7/1987	**25.8**	NA	NA	
S12-B2	4	12/7/1987	**22.5**	NA	NA	
S12-B2	6.5	12/7/1987	**25.6**	NA	NA	
S12-B2	9	12/7/1987	**22.2**	NA	NA	
S12-B2	11.5	12/7/1987	**19.3**	NA	NA	
S12-B2	16.5	12/7/1987	**23.3**	NA	NA	
S12-B2	21.5	12/7/1987	ND	NA	NA	U
S12-B2	26.5	12/7/1987	ND	NA	NA	U
S12-B2	31.5	12/7/1987	ND	NA	NA	U
S12-B3	1.5	12/7/1987	ND	NA	NA	U
S12-B3	4	12/7/1987	**23.7**	NA	NA	
S12-B3	6.5	12/7/1987	ND	NA	NA	U
S12-B3	9	12/7/1987	ND	NA	NA	U
S12-B3	11.5	12/7/1987	**19.9**	NA	NA	
S12-B3	16.5	12/7/1987	ND	NA	NA	U
S12-B3	21.5	12/7/1987	ND	NA	NA	U
S12-B3	26.5	12/7/1987	ND	NA	NA	U
S12-B3	31.5	12/7/1987	ND	NA	NA	U
S12-B4	0	1/13/1988	**38.7**	NA	NA	
S12-B4	2.5	1/13/1988	**56.1**	NA	NA	
S12-B4	5	1/13/1988	**77.1**	NA	NA	
S12-B4	7.5	1/13/1988	**69.4**	NA	NA	
S12-B4	10	1/13/1988	**98.1**	NA	NA	
S12-B4	15	1/13/1988	**61.7**	NA	NA	
S12-B4	20	1/13/1988	**112**	NA	NA	
S12-B4	25	1/13/1988	**56.2**	NA	NA	
S12-B4	30	1/13/1988	**74.3**	NA	NA	
S12-B5	10	1/14/1988	**73.5**	NA	NA	
S12-B5	12.5	1/14/1988	**11.1**	NA	NA	
S12-B5	15	1/14/1988	NR	NA	NA	
S12-B5	17.5	1/14/1988	**92.2**	NA	NA	
S12-B5	20	1/14/1988	**69**	NA	NA	
S12-B5	25	1/14/1988	**40.1**	NA	NA	

TABLE II-6

SWMU 85 (Stormwater Collection Point) Soil Analytical Data from 1997, 2007, and 2009 Reports [a,b, c]

Cannon AFB, New Mexico

Sample ID	Sample Depth (ft bgs)	Date Collected	METALS			
			ARSENIC (mg/kg)			
			4.3	Background Concentration[e]		
			3.9	Residential SSL Guideline[d]		
			17.7	Industrial SSL Guideline[d]		
			Result	MDL	RL	Qual
S12-B5	30	1/14/1988	**45.1**	NA	NA	
S12-B5	35	1/14/1988	**52.6**	NA	NA	
S12-B5	40	1/14/1988	**31.3**	NA	NA	
S12-B6	10	1/13/1988	**67.3**	NA	NA	
S12-B6	12.5	1/13/1988	**19.8**	NA	NA	
S12-B6	15	1/13/1988	**33.9**	NA	NA	
S12-B6	17.5	1/13/1988	**71.9**	NA	NA	
S12-B6	20	1/13/1988	**45.4**	NA	NA	
S12-B6	25	1/13/1988	**46.8**	NA	NA	
S12-B6	30	1/13/1988	**30.1**	NA	NA	
S12-B6	40	1/13/1988	ND	NA	NA	U
S12-B7	1.5	12/7/1987	**29**	NA	NA	
S12-B7	4	12/7/1987	ND	NA	NA	U
S12-B7	6.5	12/7/1987	ND	NA	NA	U
S12-B7	9	12/7/1987	ND	NA	NA	U
S12-B7	11.5	12/7/1987	ND	NA	NA	U
S12-B7	16.5	12/7/1987	ND	NA	NA	U
S12-B7	31.5	12/7/1987	ND	NA	NA	U
S12-B7	46.5	12/7/1987	ND	NA	NA	U
S12-B7	61.5	12/7/1987	ND	NA	NA	U
S12-B8	10	1/13/1988	ND	NA	NA	U
S12-B8	12.5	1/13/1988	**50.6**	NA	NA	
S12-B8	15	1/13/1988	ND	NA	NA	
S12-B8	17.5	1/13/1988	**46.4**	NA	NA	
S12-B8	20	1/13/1988	**65.7**	NA	NA	
S12-B8	25	1/13/1988	**68.5**	NA	NA	
S12-B8	40	1/13/1988	**41.7**	NA	NA	
S12-B8	55	1/13/1988	ND	NA	NA	U
S12-B8	70	1/13/1988	**33.8**	NA	NA	
C85-SS01-000	0 - 4	10/18/2008	**6**	0.09	0.6	
C85-SB01-000	0 - 4	10/22/2008	3.3	0.09	0.6	
C85-SB01-008	8 - 12	10/22/2008	2.8	0.09	0.6	
C85-SB01-012	12 - 16	10/22/2008	2	0.09	0.6	
C85-SB02-000	0 - 4	10/22/2008	2.8	0.09	0.6	
C85-SB02-008	4 - 8	10/22/2008	1.6	0.09	0.6	
C85-SB02-012	8 - 12	10/22/2008	2	0.09	0.6	

TABLE II-6
SWMU 85 (Stormwater Collection Point) Soil Analytical Data from 1997, 2007, and 2009 Reports a,b, c
Cannon AFB, New Mexico

Notes:

BOLD indicates an exceedance.

C85-SB01-012 = Site code (Cannon AFB, SWMU-95); Media code (SB = subsurface soil; SS = surface soil) and soil boring location number (01); and sample depth (012 = 12 ft bgs).

AFB	Air Force Base
bgs	Below ground surface
ft	Feet
ID	Identification
mg/kg	Milligram per kilogram
MDL	Method detection limit
NA	Not applicable or not available
NMED	New Mexico Environment Department
NR	Not reported
Qual	Qualifier
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RL	Reporting limit
SSL	Soil screening level
SWMU	Solid Waste Management Unit
U	Value is below method detection limit/nondetect
(a)	Harza Environmental Service, 1997, *Phase II RCRA Facility Investigation Report (Draft), Cannon Air Force Base, New Mexico* , August.
(b)	URS Group, Inc. 2007, *Final Revision 1 RFI Report for 21 SWMUs* , Cannon Air Force Base, New Mexico, October
(c)	URS Group, Inc., 2009, *Final RCRA Facility Investigation for SWMUs 34, 78, 85, 91, 95, and 107 Addendum Report* , Cannon Air Force Base, New Mexico, March.
(d)	NMED, 2012, Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program, Table A-1 updated June 2012.
(e)	Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .
(f)	Precise date of collection could not be determined.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					0951-0.5 (0953)[e]				0951-04 (0953)[e]				0951-06 (0953)[e]				0951-10 (0953)[e]				0952-0.5 (0954)[e]			
SAMPLE DEPTH (ft bgs)					0.0 – 0.5				2.0 - 4.0				4.0 – 6.0				8.0 - 10.0				0.0 - 0.5			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil[c]	Residential SSL/TPH Screening Guideline[d]	Industrial SSL/TPH Screening Guideline[d]	12/7/1991				12/7/1991				12/7/1991				12/7/1991				12/8/1991			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	2,180	NA	NA		4,560	NA	NA		9,840	NA	NA		7,840	NA	NA		6,320	NA	NA	
Arsenic	3.6	4.3	3.9	17.7	3.9	NA	NA		1.5	NA	NA	J	2.3	NA	NA		1.3	NA	NA	J	2.2	NA	NA	J
Barium	670	890	15,600	223,000	3,820	NA	NA		255	NA	NA		188	NA	NA		50.9	NA	NA		184	NA	NA	
Beryllium	0.78	0.73	156	2,260	ND	NA	NA	U	ND	NA	NA	U	0.54	NA	NA	J	0.54	NA	NA	J	ND	NA	NA	U
Cadmium	0.435	1.3	70.3	897	1.8	NA	NA		ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Calcium	44,800	237,498	NE	NE	144,000	NA	NA		223,000	NA	NA		88,900	NA	NA		109,000	NA	NA		137,000	NA	NA	
Chromium[f]	11	13	117,000	1,703,333	115	NA	NA	J	4.2	NA	NA		7.6	NA	NA		6.6	NA	NA		26.8	NA	NA	J
Cobalt[g]	6.6	4.7	23	300	12.6	NA	NA		2.7	NA	NA	J	4.3	NA	NA	J	3	NA	NA	J	3.5	NA	NA	J
Copper	18.3	8.3	3,130	45,400	59	NA	NA		ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Iron	10,100	13,148	54,800	795,000	41,200	NA	NA		2,660	NA	NA		6,530	NA	NA		4,730	NA	NA		6,310	NA	NA	
Lead	12	8.7	400	800	147	NA	NA		1.6	NA	NA		4.8	NA	NA		3.1	NA	NA		31.6	NA	NA	
Magnesium	1,930	19,300	NE	NE	2,740	NA	NA		3,910	NA	NA		4,500	NA	NA		4,340	NA	NA		26.1	NA	NA	
Manganese	307	333	1,860	26,700	443	NA	NA		115	NA	NA		103	NA	NA		57.2	NA	NA		165	NA	NA	
Mercury	0.056	0.019	15.6	73.6	0	NA	NA		ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	49.1	NA	NA		5.6	NA	NA	J	9.6	NA	NA		6.8	NA	NA	J	8.1	NA	NA	J
Potassium	2,691	2,512	NE	NE	448	NA	NA	J	814	NA	NA	J	2,030	NA	NA		1,680	NA	NA		1,130	NA	NA	J
Selenium	0.26	1.1	391	5,680	ND	NA	NA	UJ	ND	NA	NA	UJ	ND	NA	NA	UJ	ND	NA	NA	UJ	ND	NA	NA	UJ
Silver	0.4	2.7	391	5,680	ND	NA	NA	U	1	NA	NA	J	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Sodium	102	1,227	NE	NE	6,410	NA	NA		5,570	NA	NA		3,140	NA	NA		1,170	NA	NA		1,850	NA	NA	
Vanadium	23	33	391	5,680	15.5	NA	NA		9.4	NA	NA	J	20.7	NA	NA		14.3	NA	NA		13.8	NA	NA	
Zinc	32	31	23,500	341,000	467	NA	NA	J	7.6	NA	NA		17.4	NA	NA		11	NA	NA		62.6	NA	NA	J
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	0.14	NA	NA	J	0.022	NA	NA		0.011	NA	NA	J	0.017	NA	NA		ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	0.023	NA	NA	J	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	UJ
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	J	ND	NA	NA	U	ND	NA	NA	U	0.003	NA	NA	U	0.012	NA	NA	J
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	1.3	NA	NA	J	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	1.7	NA	NA	J	0.35	NA	NA	J	ND	NA	NA	U	0.045	NA	NA	J	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	0.24	NA	NA	J	ND	NA	NA	U
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons[g]	NE	NE	1,000	1,000	1,260	NA	NA		48.5	NA	NA	U	46.4	NA	NA	U	46.5	NA	NA	U	285	NA	NA	

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID	Background Concentrations for Surface Soil[e]	Background Concentration for Subsurface Soil[c]	Residential SSL/TPH Screening Guideline[d]	Industrial SSL/TPH Screening Guideline[d]	0952-04 (0954)[e]				0952-06 (0954)[e]				0952-10 (0954)[e]				S20-B1-0				S20-B1-2			
SAMPLE DEPTH (ft bgs)					2.0 - 4.0				4.0 - 6.0				8.0 - 10.0				0				2			
DATE COLLECTED					12/8/1991				12/8/1991				12/8/1991				1/10/1988				1/11/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	4,160	NA	NA		4,760	NA	NA		5,240	NA	NA		NS				NS			
Arsenic	3.6	4.3	3.9	17.7	1.9	NA	NA	J	1.8	NA	NA	J	1.9	NA	NA	J	**80.3**[i]	NA	NA		**92**[i]	NA	NA	
Barium	670	890	15,600	223,000	74.3	NA	NA		82.7	NA	NA		239	NA	NA		296	NA	NA		458	NA	NA	
Beryllium	0.78	0.73	156	2,260	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Cadmium	0.435	1.3	70.3	897	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	3.6	NA	NA		4.5	NA	NA	
Calcium	44,800	237,498	NE	NE	146,000	NA	NA		127,000	NA	NA		160,000	NA	NA		NS				NS			
Chromium[f]	11	13	117,000	1,703,333	4.4	NA	NA	J	4.3	NA	NA	J	4.4	NA	NA	J	9.6	NA	NA		10.5	NA	NA	
Cobalt[g]	6.6	4.7	23	300	1.5	NA	NA	J	2.4	NA	NA	J	3.1	NA	NA	J	NS				NS			
Copper	18.3	8.3	3,130	45,400	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Iron	10,100	13,148	54,800	795,000	3,810	NA	NA		3,880	NA	NA		3,830	NA	NA		NS				NS			
Lead	12	8.7	400	800	3.6	NA	NA		3.3	NA	NA		2.9	NA	NA		146	NA	NA		46.9	NA	NA	
Magnesium	1,930	19,300	NE	NE	2,360	NA	NA		2,290	NA	NA		3,450	NA	NA		NS				NS			
Manganese	307	333	1,860	26,700	106	NA	NA		99.9	NA	NA		113	NA	NA		NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	4.7	NA	NA	J	4.6	NA	NA	J	4.9	NA	NA	J	NS				174			
Potassium	2,691	2,512	NE	NE	982	NA	NA	J	1,110	NA	NA	J	1,110	NA	NA	J	NS				NS			
Selenium	0.26	1.1	391	5,680	ND	NA	NA	UJ	ND	NA	NA	UJ	ND	NA	NA	UJ	ND	NA	NA	U	NS	NA	NA	
Silver	0.4	2.7	391	5,680	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Sodium	102	1,227	NE	NE	1,410	NA	NA		1,800	NA	NA		1,420	NA	NA		NS				NS			
Vanadium	23	33	391	5,680	12.5	NA	NA		11.5	NA	NA	J	11.6	NA	NA	J	NS				NS			
Zinc	32	31	23,500	341,000	9	NA	NA		8.8	NA	NA		9.3	NA	NA	J	NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	0.021	NA	NA		ND	NA	NA	U	ND	NA	NA	UJ	ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	0.012	NA	NA	J	ND	NA	NA	U	ND	NA	NA	UJ	ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	UJ	ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	0.19	NA	NA	J	ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons[g]	NE	NE	1,000	1,000	49	NA	NA		49.9	NA	NA	U	48.5	NA	NA	U	NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					S20-B1-4				S20-B2-0				S20-B2-2				S20-B2-4				S20-B3-0			
SAMPLE DEPTH (ft bgs)					4				0				2				4				0			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	1/11/1988				1/12/1988				1/12/1988				1/12/1988				1/11/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**92**	NA	NA		NDi	NA	NA	U	**61.1**[i]	NA	NA		**33.2**[i]	NA	NA		**60.6**[i]	NA	NA	
Barium	670	890	15,600	223,000	737	NA	NA		151	NA	NA		138	NA	NA		98.2	NA	NA		441	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	4.1	NA	NA		3.8	NA	NA		2.9	NA	NA		2.5	NA	NA		5.5	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	7.7	NA	NA		18.3	NA	NA		7.8	NA	NA		6.9	NA	NA		10.5	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	31.5	NA	NA		84	NA	NA		65	NA	NA		52	NA	NA		76.1	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	0.61	NA	NA		ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	186	NA	NA		ND	NA	NA	U	151	NA	NA		150	NA	NA		149	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					S20-B3-2				S20-B3-4 R				S20-B4-0				S20-B4-2				S20-B4-4			
SAMPLE DEPTH (ft bgs)					2				4				0				2				4			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	1/11/1988				1/11/1988				1/8/1988				1/8/1988				1/8/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**70.2**[i]	NA	NA		**152**[i]	NA	NA		NDi	NA	NA	U	NDi	NA	NA	U	NDi	NA	NA	U
Barium	670	890	15,600	223,000	1,530	NA	NA		107	NA	NA		561	NA	NA		281	NA	NA		150	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	5.5	NA	NA		2.4	NA	NA		4.6	NA	NA		3.3	NA	NA		1.3	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	10.9	NA	NA		1.4	NA	NA		14.1	NA	NA		7	NA	NA		6.3	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	28.1	NA	NA		19.4	NA	NA		59.4	NA	NA		30	NA	NA		32.5	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	131	NA	NA		273	NA	NA		61.8	NA	NA		51.1	NA	NA		71.4	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil[c]	Residential SSL/TPH Screening Guideline[d]	Industrial SSL/TPH Screening Guideline[d]	S20-B5-0				S20-B5-2				S20-B5-4				S20-B6-0				S20-B6-2.5			
SAMPLE DEPTH (ft bgs)					0				2				4				0				2.5			
DATE COLLECTED					1/8/1988				1/8/1988				1/8/1988				1/9/1988				1/9/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	NDi	NA	NA	U	**36.9**[i]	NA	NA		NDi	NA	NA	U	**59.6**[i]	NA	NA		**49.6**[i]	NA	NA	
Barium	670	890	15,600	223,000	162	NA	NA		59.4	NA	NA		233	NA	NA		191	NA	NA		220	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	4	NA	NA		1.8	NA	NA		2.1	NA	NA		4.6	NA	NA		1.1	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium[f]	11	13	117,000	1,703,333	17.2	NA	NA		10.5	NA	NA		8.9	NA	NA		18.6	NA	NA		4.4	NA	NA	
Cobalt[g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	32.5	NA	NA		40.3	NA	NA		21.2	NA	NA		215	NA	NA		58	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	48.9	NA	NA		49.8	NA	NA		68.9	NA	NA		80.2	NA	NA		163	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons[g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID		Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	S20-B6-5				S20-B6-7.5				S20-B6-10				S20-B6-15				S20-B6-20			
SAMPLE DEPTH (ft bgs)					5				7.5				10				15				20			
DATE COLLECTED	Background Concentrations for Surface Soil [c]				1/9/1988				1/9/1988				1/9/1988				1/9/1988				1/9/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**31.1** [i]	NA	NA		NDi	NA	NA	U	NDi	NA	NA	U	**57.4** [i]	NA	NA		**90** [i]	NA	NA	
Barium	670	890	15,600	223,000	97.1	NA	NA		233	NA	NA		92.9	NA	NA		121	NA	NA		302	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	2	NA	NA		1.7	NA	NA		1.7	NA	NA		1.7	NA	NA		2	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	8.1	NA	NA		4.8	NA	NA		4.6	NA	NA		5.3	NA	NA		5.5	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	121	NA	NA		24	NA	NA		38	NA	NA		49	NA	NA		72	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	121	NA	NA		ND	NA	NA	U	125	NA	NA		142	NA	NA		139	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					S20-B6-25				S20-B6-30				S20-B7-0				S20-B7-2.5				S20-B7-5			
SAMPLE DEPTH (ft bgs)					25				30				0				2.5				5			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	1/9/1988				1/9/1988				1/8/1988				1/8/1988				1/8/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**32**[i]	NA	NA		NDi	NA	NA	U	**21.4**[i]	NA	NA		NDi	NA	NA	U	NDi	NA	NA	U
Barium	670	890	15,600	223,000	107	NA	NA		36	NA	NA		390	NA	NA		573	NA	NA		497	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	ND	NA	NA	U	ND	NA	NA	U	3.7	NA	NA		22	NA	NA		2.9	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	2.5	NA	NA		2.5	NA	NA		9.5	NA	NA		8	NA	NA		7.5	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	38	NA	NA		21	NA	NA		33.7	NA	NA		29.7	NA	NA		43.7	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	101	NA	NA		ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	53.3	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	NS				NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	NS				NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	NS				NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	NS				NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS				NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID		Background	Residential	Industrial	S20-B7-7.5				S20-B7-10				S20-B7-15				S20-B7-20				S20-B7-25			
SAMPLE DEPTH (ft bgs)	Background	Concentration	SSL/TPH	SSL/TPH	7.5				10				15				20				25			
DATE COLLECTED	Concentrations	for Subsurface	Screening	Screening	1/8/1988				1/8/1988				1/8/1988				1/8/1988				1/8/1988			
	for Surface Soil[c]	Soil [c]	Guideline [d]	Guideline [d]	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	NDi	NA	NA	U	NDi	NA	NA	U	NDi	NA	NA	U	NDi	NA	NA	U	**63.2**[i]	NA	NA	
Barium	670	890	15,600	223,000	175	NA	NA		73.8	NA	NA		163	NA	NA		262	NA	NA		53.4	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	2.7	NA	NA		2.5	NA	NA		3.2	NA	NA		0.7	NA	NA		3.6	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	6.5	NA	NA		8.8	NA	NA		7	NA	NA		6.6	NA	NA		5.2	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	32.4	NA	NA		29.7	NA	NA		24.6	NA	NA		32.9	NA	NA		28.3	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	81.2	NA	NA		ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	11.2	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	NS				NS				NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	NS				NS				NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	NS				NS				NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	NS				NS				NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	NS				NS				NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					S20-B7-30				S20-B8-0				S20-B8-2.5				S20-B8-5				S20-B8-7.5			
SAMPLE DEPTH (ft bgs)					30				0				2.5				5				7.5			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	1/8/1988				1/7/1988				1/7/1988				1/7/1988				1/7/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**49.4**[i]	NA	NA		NDi	NA	NA	U	**23.1**[i]	NA	NA		NDi	NA	NA	U	**25.4**[i]	NA	NA	
Barium	670	890	15,600	223,000	38.9	NA	NA		227	NA	NA		4,290	NA	NA		218	NA	NA		245	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	2.4	NA	NA		2.6	NA	NA		4.5	NA	NA		2.7	NA	NA		2.4	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	3.9	NA	NA		6.3	NA	NA		11.4	NA	NA		8.3	NA	NA		10.5	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	29	NA	NA		47.6	NA	NA		57.7	NA	NA		37.8	NA	NA		60.3	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	10.1	NA	NA		54.2	NA	NA		94.9	NA	NA		51.5	NA	NA		78.6	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				0.027				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				0.07				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					S20-B8-10				S20-B8-15				S20-B8-20				S20-B8-25				S20-B8-30			
SAMPLE DEPTH (ft bgs)					10				15				20				25				30			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	1/7/1988				1/7/1988				1/7/1988				1/7/1988				1/7/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	NDi	NA	NA	U	NDi	NA	NA	U	NDi	NA	NA	U	NDi	NA	NA	U	NDi	NA	NA	U
Barium	670	890	15,600	223,000	106	NA	NA		134	NA	NA		68.6	NA	NA		67.6	NA	NA		35.4	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	2.4	NA	NA		4.9	NA	NA		1.6	NA	NA		0.09	NA	NA		1.6	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	7.5	NA	NA		8.5	NA	NA		7.1	NA	NA		4.5	NA	NA		5.3	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	23.3	NA	NA		38.8	NA	NA		46.2	NA	NA		23.9	NA	NA		19.3	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	ND	NA	NA	U	75.8	NA	NA		ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	NS				NS				NS				NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	NS				NS				NS				NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	NS				NS				NS				NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	NS				NS				NS				NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	NS				NS				NS				NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID		Background	Residential	Industrial	S20-B9-0				S20-B9-2.5				S20-B9-5				S20-B9-7.5				S20-B9-10			
SAMPLE DEPTH (ft bgs)	Background	Concentration	SSL/TPH	SSL/TPH	0				2.5				5				7.5				10			
DATE COLLECTED	Concentrations	for Subsurface	Screening	Screening	1/9/1988				1/9/1988				1/9/1988				1/9/1988				1/9/1988			
	for Surface Soil[c]	Soil [c]	Guideline [d]	Guideline [d]	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	NDi	NA	NA	U	**61.7**[i]	NA	NA		**76.2**[i]	NA	NA		**19.1**[i]	NA	NA		**43**[i]	NA	NA	
Barium	670	890	15,600	223,000	149	NA	NA		195	NA	NA		331	NA	NA		110	NA	NA		76	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	4.9	NA	NA		1.9	NA	NA		3.3	NA	NA		1.2	NA	NA		1.7	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	15.9	NA	NA		8	NA	NA		9.3	NA	NA		6.4	NA	NA		6.7	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	75	NA	NA		75	NA	NA		60	NA	NA		45	NA	NA		50	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	105	NA	NA		175	NA	NA		75.3	NA	NA		130	NA	NA		132	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID		Background	Residential	Industrial	S20-B9-15				S20-B9-20				S20-B9-25				S20-B9-30				S20-B10-0			
SAMPLE DEPTH (ft bgs)	Background	Concentration	SSL/TPH	SSL/TPH	15				20				25				30				0			
DATE COLLECTED	Concentrations	for Subsurface	Screening	Screening	1/9/1988				1/9/1988				1/9/1988				1/9/1988				1/12/1988			
	for Surface Soil[c]	Soil [c]	Guideline [d]	Guideline [d]	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**32.7**[i]	NA	NA		**132**[i]	NA	NA		**19.6**[i]	NA	NA		**16.8**[i]	NA	NA		**22.7**[i]	NA	NA	
Barium	670	890	15,600	223,000	68	NA	NA		411	NA	NA		96.4	NA	NA		34.8	NA	NA		273	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	ND	NA	NA	U	2.1	NA	NA		1.3	NA	NA		ND	NA	NA	U	10.5	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	4.5	NA	NA		4.5	NA	NA		6	NA	NA		4.1	NA	NA		47.5	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	38	NA	NA		36	NA	NA		32	NA	NA		56	NA	NA		258	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	46.6	NA	NA		131	NA	NA		106	NA	NA		106	NA	NA		154	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	NS				NS				NS				NS				ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	NS				NS				NS				NS				ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	NS				NS				NS				NS				ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	NS				NS				NS				NS				ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS				NS				NS				NS				ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					S20-B10-2.5				S20-B10-5				S20-B10-7.5				S20-B10-10				S20-B10-15			
SAMPLE DEPTH (ft bgs)					2.5				5				7.5				10				15			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil[c]	Residential SSL/TPH Screening Guideline[d]	Industrial SSL/TPH Screening Guideline[d]	1/12/1988				1/12/1988				1/12/1988				1/12/1988				1/12/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	NDi	NA	NA	U	**30.5**[i]	NA	NA		**36.3**[i]	NA	NA		NDi	NA	NA	U	**51.9**[i]	NA	NA	
Barium	670	890	15,600	223,000	187	NA	NA		480	NA	NA		258	NA	NA		2	NA	NA		447	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	3.1	NA	NA		2.5	NA	NA		3.6	NA	NA		1	NA	NA		3.1	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium[f]	11	13	117,000	1,703,333	8.5	NA	NA		4.9	NA	NA		8.2	NA	NA		2	NA	NA		6.5	NA	NA	
Cobalt[g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	77	NA	NA		71	NA	NA		49	NA	NA		21	NA	NA		49	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	149	NA	NA		174	NA	NA		141	NA	NA		ND	NA	NA	U	74.1	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons[g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil[c]	Residential SSL/TPH Screening Guideline[d]	Industrial SSL/TPH Screening Guideline[d]	S20-B10-20				S20-B10-25				S20-B10-30				S20-B11-0				S20-B11-2.5			
SAMPLE DEPTH (ft bgs)					20				25				30				0				2.5			
DATE COLLECTED					1/12/1988				1/12/1988				1/12/1988				1/11/1988				1/11/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**89.5**[i]	NA	NA		**37.7**[i]	NA	NA		NDi	NA	NA	U	**66.3**[i]	NA	NA		**92.6**[i]	NA	NA	
Barium	670	890	15,600	223,000	164	NA	NA		85.2	NA	NA		34	NA	NA		191	NA	NA		453	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	2.4	NA	NA		1.4	NA	NA		1.7	NA	NA		5.2	NA	NA		1.2	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium[f]	11	13	117,000	1,703,333	4.7	NA	NA		4.9	NA	NA		3.2	NA	NA		20.3	NA	NA		5.1	NA	NA	
Cobalt[g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	47	NA	NA		40	NA	NA		42	NA	NA		64.3	NA	NA		36.3	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	107	NA	NA		83.3	NA	NA		ND	NA	NA	U	68.2	NA	NA		94.6	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	NS				NS				NS				ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	NS				NS				NS				ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	NS				NS				NS				ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	NS				NS				NS				ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS				NS				NS				ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons[g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					S20-B11-5				S20-B11-7.5				S20-B11-10				S20-B11-15				S20-B11-30			
SAMPLE DEPTH (ft bgs)					5				7.5				10				15				30			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	1/11/1988				1/11/1988				1/11/1988				1/11/1988				1/11/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**101**[i]	NA	NA		**103**[i]	NA	NA		**87.4**[i]	NA	NA		**93**[i]	NA	NA		**59.7**[i]	NA	NA	
Barium	670	890	15,600	223,000	560	NA	NA		411	NA	NA		618	NA	NA		579	NA	NA		34.5	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	2.8	NA	NA		3.6	NA	NA		2.4	NA	NA		3.1	NA	NA		1.1	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	7.3	NA	NA		9	NA	NA		7.9	NA	NA		5.4	NA	NA		2.4	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	41.3	NA	NA		35.9	NA	NA		56.6	NA	NA		50	NA	NA		15.4	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	76.6	NA	NA		57.1	NA	NA		50.7	NA	NA		48.8	NA	NA		39.2	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID		Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	S20-B11-45				S20-B11-60				C95-SB01-000				C95-SB01-008				C95-SB01-012			
SAMPLE DEPTH (ft bgs)					45				60				0 - 4				8 - 12				12 - 16			
DATE COLLECTED	Background Concentrations for Surface Soil [c]				1/11/1988				1/11/1988				10/22/2008				10/22/2008				10/22/2008			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**50.2** [i]	NA	NA		NDi	NA	NA	U	**4.6**	0.09	0.6		2.7	0.09	0.6		3	0.09	0.6	
Barium	670	890	15,600	223,000	77.9	NA	NA		13.4	NA	NA		NS				NS				NS			
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	ND	NA	NA	U	ND	NA	NA	U	NS				NS				NS			
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	3.7	NA	NA		1.2	NA	NA		NS				NS				NS			
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	13.9	NA	NA		14.6	NA	NA		NS				NS				NS			
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	NS				NS				NS			
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	35.4	NA	NA		37.2	NA	NA		NS				NS				NS			
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	NS				NS				NS				NS				NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	NS				NS				NS				NS				NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	NS				NS				NS				NS				NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	NS				NS				NS				NS				NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS				NS				NS				NS				NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID		Background	Residential	Industrial	C95-SB02-000				C95-SB02-006				C95-SB02-015				C95-SB03-000				C95-SB03-008			
SAMPLE DEPTH (ft bgs)	Background	Concentration	SSL/TPH	SSL/TPH	0 - 2				6 - 8				15 - 16				0 - 4				8 - 12			
DATE COLLECTED	Concentrations	for Subsurface	Screening	Screening	10/21/2008				10/21/2008				10/21/2008				10/22/2008				10/22/2008			
	for Surface Soil[c]	Soil [c]	Guideline [d]	Guideline [d]	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	3.7	0.09	0.6		3.7	0.09	0.6		2.4	0.09	0.6		3.5	0.09	0.6		3.8	0.09	0.6	
Barium	670	890	15,600	223,000	NS				NS				NS				NS				NS			
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	NS				NS				NS				NS				NS			
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	NS				NS				NS				NS				NS			
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	NS				NS				NS				NS				NS			
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	NS				NS				NS				NS				NS			
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	NS				NS				NS				NS				NS			
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	NS				NS				NS				NS				NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	NS				NS				NS				NS				NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	NS				NS				NS				NS				NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	NS				NS				NS				NS				NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS				NS				NS				NS				NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID		Background	Residential	Industrial	C95-SB03-012				C95-SB04-000				C95-SB04-008				C95-SB04-012			
SAMPLE DEPTH (ft bgs)	Background	Concentration	SSL/TPH	SSL/TPH	12 - 16				0 - 4				8 - 12				12 - 16			
DATE COLLECTED	Concentrations	for Subsurface	Screening	Screening	10/22/2008				10/22/2008				10/22/2008				10/22/2008			
	for Surface Soil[c]	Soil [c]	Guideline [d]	Guideline [d]	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																				
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	2.6	0.09	0.6		3.7	0.09	0.6		2.8	0.09	0.6		2.6	0.09	0.6	
Barium	670	890	15,600	223,000	NS				NS				NS				NS			
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	NS				NS				NS				NS			
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	NS				NS				NS				NS			
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS			
Lead	12	8.7	400	800	NS				NS				NS				NS			
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	NS				NS				NS				NS			
Nickel	11	15	1,560	22,500	NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	NS				NS				NS				NS			
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																				
Acetone	NE	NE	66,600	868,000	NS				NS				NS				NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	NS				NS				NS				NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	NS				NS				NS				NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																				
2-Methylnaphthalene	NE	NE	230	2,300	NS				NS				NS				NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS				NS				NS				NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																				
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7
SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports a,b
Cannon AFB, New Mexico

Notes:
BOLD indicates an exceedance.
0952-10 (0954) = Site code (Cannon AFB, SWMU-95); Soil boring location number (2); and sample depth 10 ft bgs).
C95-SB01-012 = Site code (Cannon AFB, SWMU 95); Media code (SB = subsurface soil) and soil boring location number (01); and sample depth (012 = 12 ft bgs).

AFB	Air Force Base
bgs	Below ground surface
EPA	U.S. Environmental Protection Agency
ft	Feet
ICP	Inductively coupled plasma
ID	Identification
J	Concentration reported below the method reporting limit
MDL	Method detection limit
MEK	2-Butanone
mg/kg	Milligram per kilogram
NA	Not applicable or not available
ND	Not detected
NE	Not established
NMED	New Mexico Environment Department
NS	Not sampled
Qual	Qualifier
RL	Reporting limit
RSL	Regional screening level
SSL	Soil screening level
SWMU	Solid Waste Management Unit
TPH	Total petroleum hydrocarbon
U	Value is below method detection limit/nondetect
UJ	Estimated as non-detect at instrument detection limit

(a) Walk, Haydel & Associates, Inc., 1990, *Installation Restoration Program Final Remedial Investigation Report* , Cannon Air Force Base, New Mexico.
(b) Woodward-Clyde, 1992, *Remedial Investigation Report for 18 Solid Waste Management Units* , Cannon Air Force Base, New Mexico, October.
(c) Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .
(d) NMED, 2012, Risk Assessment Guidance for Site Investigation and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau Voluntary Remediation Program, NMED, updated
(e) Results are from samples collected from re-drilled borings due to laboratory missed holding times.
(f) In the absence of a total chromium screening level, chromium (III) is used. (NMED,2012)
(g) Value is the EPA RSL from the Mid-Atlantic Risk Assessment, Regional Screening Levels, on-line risk-based concentrations table for Residential Soil: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm.
(h) Value is for unknown oil from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program.
(i) Data is questionable and not valid and may be attributed to inter-elemental interference during the inception of new ICP method.

TABLE II-8

SWMU 110 (Underground Waste Oil Tank #2336) Historical Subsurface Soil Analytical Data from 1997 Report[a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	Construction Worker SSL Screening Guideline [d]	Risk-Based SSL for a DAFof 20 [d]	SB12-0101 1.0 – 2.0 22-Feb-97		SB12-0102 2.0 - 3.0 22-Feb-97		SB12-0110 10.0 - 11.0 22-Feb-97		SB12-0121 21.0 - 22.0 22-Feb-97		SB12-0130 30.0 - 31.0 22-Feb-97	
							Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
METALS (mg/kg)																
Aluminum	8,950	12,214	78,000	1,130,000	40,700	1,100,000	7,620		5,310		3,630		4,630		3,280	
Antimony	3.15	16	31.3	454	124	13.2	2.9	J	ND	U	ND	U	ND	U	ND	U
Arsenic	3.6	4.3	3.9	17.7	53	0.262	1.9		1.4		1.2		1.7		1.3	
Barium	670	890	15,600	223,000	4,350	6,030	93.5		49.5		146		327		100	
Beryllium	0.78	0.73	156	2,260	144	1,150	0.57		0.42		0.36		0.35		0.21	
Cadmium	0.435	1.3	70.3	897	277	27.5	ND	U	ND	U	ND	U	ND	U	ND	U
Calcium	44,800	237,498	NE	NE	NE	NE	2,120		1,700		51,500		60,100		122,000	
Chromium [e]	11	13	117,000	1,703,333	465,000	1.97E+09	8.9		6.8		4		4.1		4.3	
Cobalt [f]	6.6	4.7	23	300	NE	NE	4.3		2.9		2.8		2.6		1.8	
Copper	18.3	8.3	3,130	45,400	12,400	1,030	5.6		4.6		3.1		3		1.7	
Iron	10,100	13,148	54,800	795,000	217,000	12,900	9,070		6,180		3,540		4,490		2,710	
Lead	12	8.7	400	800	800	NE	8.7		6.4		3.9		3.8		2.2	
Magnesium	1,930	19,300	NE	NE	NE	NE	1,330		931		2,010		2,980		3,260	
Manganese	307	333	1,860	26,700	440	1,140	164		85.4		81		66.3		30.1	
Mercury	0.056	0.019	15.6	73.6	13.6	0.654	ND	U	ND	U	ND	U	ND	U	ND	U
Nickel	11	15	1,560	22,500	6,190	953	7.8		6.5		5.3		5.7		3.6	
Potassium	2,691	2,512	NE	NE	NE	NE	1,410		1,060		1,080		1,540		570	
Selenium	0.26	1.1	391	5,680	1,550	19.3	0.1		0.077		0.094		ND	U	0.063	
Silver	0.4	2.7	391	5,680	1,550	31.3	ND	U	ND	U	ND	U	ND	U	ND	U
Sodium	102	1,227	NE	NE	NE	NE	ND	U	ND	U	142		194		184	
Thallium	0.6	2.65	0.782	11.4	3.1	0.52	ND	U	ND	U	ND	U	ND	U	ND	U
Vanadium	23	33	391	5,680	1,550	3,650	18.6		12.6		11.3		15.5		10.6	
Zinc	32	31	23,500	341,000	92,900	13,600	19		14.2		13.6		11.5		7.2	
Cyanide (total)	NE	NE	46.9	681	186	4.41	ND	U	ND	U	ND	U	ND	U	ND	U

TABLE II-8

SWMU 110 (Underground Waste Oil Tank #2336) Historical Subsurface Soil Analytical Data from 1997 Report[a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	Construction Worker SSL Screening Guideline [d]	Risk-Based SSL for a DAFof 20 [d]	SB12-0101 1.0 – 2.0 22-Feb-97		SB12-0102 2.0 - 3.0 22-Feb-97		SB12-0110 10.0 - 11.0 22-Feb-97		SB12-0121 21.0 - 22.0 22-Feb-97		SB12-0130 30.0 - 31.0 22-Feb-97	
							Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
1,1,1,2-Tetrachloroethane	NA	NA	29.1	161	779	0.0329	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,1-Trichloroethane	NA	NA	15,600	78,900	14,800	58.2	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2,2-Tetrachloroethane	NA	NA	8.02	43.5	221	0.00426	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichloroethane	NA	NA	2.81	13.3	472	0.00223	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethane	NA	NA	64.5	359	1,700	0.12	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethene	NA	NA	449	2,290	432	2.32	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloropropene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,3-Trichlorobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,3-Trichloropropane	NA	NA	0.0497	37.6	7.23	0.00005	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trichlorobenzene	NA	NA	73	367	68.7	0.183	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trimethylbenzene	NA	NA	NE	NE	NE	NE	0.0011	J	ND	U	0.002	J	ND	U	ND	U
1,2-Dibromo-3-Chloropropane	NA	NA	1.86	1.08	5.07	0.000022	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dibromoethane	NA	NA	0.588	3.22	16	0.000308	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichlorobenzene	NA	NA	2,310	14,000	2,710	5.6	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloroethane	NA	NA	7.89	43.5	58.7	0.00711	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloropropane	NA	NA	15.2	84.4	25	0.0214	ND	U	ND	U	ND	U	ND	U	ND	U
1,3,5-Trimethylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Dichloropropane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	NA	NA	31.7	177	831	0.0639	ND	U	ND	U	ND	U	ND	U	ND	U
2,2-Dichloropropane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
2-Butanone	NA	NA	37,100	375,000	84,300	25.5	ND	U	ND	U	ND	U	ND	U	ND	U
2-Chlorotoluene	NA	NA	1,560	22,700	6,190	11.2	ND	U	ND	U	ND	U	ND	U	ND	U
2-Hexanone	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Chlorotoluene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Methyl-2-Pentanone	NA	NA	5,820	73,800	18,500	7.68	ND	U	ND	U	ND	U	ND	U	ND	U
Acetone	NA	NA	66,600	868,000	221,000	77.1	ND	U	0.000132	J	0.000363	J	0.000124	J	ND	U
Benzene	NA	NA	15.4	84.7	138	0.0345	ND	U	ND	U	ND	U	ND	U	ND	U
Bromobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Bromochloromethane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Bromodichloromethane	NA	NA	5.41	30.1	143	0.00541	ND	U	ND	U	ND	U	ND	U	ND	U
Bromoform	NA	NA	616	2,420	4,760	12.1	ND	U	ND	U	ND	U	ND	U	ND	U
Bromomethane	NA	NA	16.5	86.5	16.4	0.0385	ND	U	ND	U	ND	U	ND	U	ND	U
Carbon Disulfide	NA	NA	1,530	8,330	1,580	5.65	ND	U	ND	U	ND	U	ND	U	ND	U
Carbon Tetrachloride	NA	NA	10.8	59.8	226	0.0321	ND	U	ND	U	ND	U	ND	U	ND	U
Chlorobenzene	NA	NA	376	2,120	406	0.984	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroethane	NA	NA	29,800	141,000	26,100	107	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroform	NA	NA	5.86	32.7	154	0.00918	ND	U	ND	U	ND	U	ND	U	ND	U
Chloromethane	NA	NA	275	1,290	241	0.879	ND	U	ND	U	ND	U	ND	U	ND	U
cis-1,2-dichloroethene	NA	NA	156	2,270	619	0.367	ND	U	ND	U	ND	U	ND	U	ND	U
cis-1,3-Dichloropropene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Dibromochloromethane	NA	NA	12.1	62.4	332	0.00661	ND	U	ND	U	ND	U	ND	U	ND	U

TABLE II-8

SWMU 110 (Underground Waste Oil Tank #2336) Historical Subsurface Soil Analytical Data from 1997 Report[a]

Cannon AFB, New Mexico

FIELD ID							SB12-0101		SB12-0102		SB12-0110		SB12-0121		SB12-0130	
SAMPLE DEPTH (ft bgs)							1.0 – 2.0		2.0 - 3.0		10.0 - 11.0		21.0 - 22.0		30.0 - 31.0	
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	Construction Worker SSL Screening Guideline [d]	Risk-Based SSL for a DAFof 20 [d]	22-Feb-97		22-Feb-97		22-Feb-97		22-Feb-97		22-Feb-97	
							Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Dibromomethane	NA	NA	51.6	254	3,100	0.0342	ND	U	ND	U	ND	U	ND	U	ND	U
Dichlorodifluoromethane	NA	NA	168	798	149	7.43	ND	U	ND	U	ND	U	ND	U	ND	U
Ethylbenzene	NA	NA	68.4	378	1,830	0.26	ND	U	ND	U	ND	U	ND	U	ND	U
Hexachlorobutadiene	NA	NA	61.1	246	238	0.257	ND	U	ND	U	ND	U	ND	U	ND	U
Isopropylbenzene	NA	NA	2,430	14,500	2,810	17.3	ND	U	ND	U	ND	U	ND	U	ND	U
m & p-Xylene	NA	NA	774	3,780	705	3.12	0.0027	J	0.0012	J	0.0011	J	ND	U	ND	U
Methylene Chloride	NA	NA	409	4,700	1,120	0.824	ND	U	ND	U	ND	U	ND	U	0.00014	
Naphthalene	NA	NA	43	241	158	0.0713	ND	U	ND	U	ND	U	ND	U	ND	U
n-Butylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
n-Propylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
o-Xylene	NA	NA	898	4,410	823	3.13	0.0012	J	ND	U	ND	U	ND	U	ND	U
p-Isopropyltoluene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
sec-Butylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Styrene	NA	NA	7,280	50,000	9,990	27.7	ND	U	ND	U	ND	U	ND	U	ND	U
tert-Butylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Tetrachloroethene	NA	NA	7.02	36.6	212	0.00861	ND	U	ND	U	ND	U	ND	U	ND	U
Toluene	NA	NA	5,270	57,700	13,400	25.3	0.0016	J	ND	U	ND	U	ND	U	ND	U
trans-1,2-Dichloroethene	NA	NA	270	1,440	273	0.538	ND	U	ND	U	ND	U	ND	U	ND	U
trans-1,3-Dichloropropene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Trichloroethene	NA	NA	8.77	41.3	7.68	0.0211	ND	U	ND	U	ND	U	ND	U	ND	U
Trichloroflouromethane	NA	NA	1,410	6,940	1,300	17.8	ND	U	ND	U	ND	U	ND	U	ND	U
Vinyl Chloride	NA	NA	0.728	26.1	149	0.00108	ND	U	ND	U	ND	U	ND	U	ND	U

TABLE II-8

SWMU 110 (Underground Waste Oil Tank #2336) Historical Subsurface Soil Analytical Data from 1997 Report[a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	Construction Worker SSL Screening Guideline [d]	Risk-Based SSL for a DAFof 20 [d]	SB12-0101 1.0 – 2.0 22-Feb-97		SB12-0102 2.0 - 3.0 22-Feb-97		SB12-0110 10.0 - 11.0 22-Feb-97		SB12-0121 21.0 - 22.0 22-Feb-97		SB12-0130 30.0 - 31.0 22-Feb-97	
							Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
1,2,4-Trichlorobenzene	NA	NA	73	367	68.7	0.183	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichlorobenzene	NA	NA	2,310	14,000	2,710	5.6	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	NA	NA	31.7	177	831	0.0639	ND	U	ND	U	ND	U	ND	U	ND	U
2,4,5-Trichlorophenol	NA	NA	6,110	68,400	23,800	207	ND	U	ND	U	ND	U	ND	U	ND	U
2,4,6-Trichlorophenol	NA	NA	61.1	684	238	2.07	ND	U	ND	U	ND	U	ND	U	ND	U
2,4-Dichlorophenol	NA	NA	183	2,050	715	2	ND	U	ND	U	ND	U	ND	U	ND	U
2,4-Dimethylphenol	NA	NA	1,220	13,700	4,760	13.3	ND	U	ND	U	ND	U	ND	U	ND	U
2,4-Dinitrophenol	NA	NA	122	1,370	476	1.26	ND	U	ND	U	ND	U	ND	U	ND	U
2,4-Dinitrotoluene	NA	NA	15.7	61.8	476	0.0449	ND	U	ND	U	ND	U	ND	U	ND	U
2,6-Dinitrotoluene	NA	NA	61.1	684	238	0.77	ND	U	ND	U	ND	U	ND	U	ND	U
2-Chloronaphthalene	NA	NA	6260	90,800	24,800	227	ND	U	ND	U	ND	U	ND	U	ND	U
2-Chlorophenol	NA	NA	391	5,680	1,550	2.31	ND	U	ND	U	ND	U	ND	U	ND	U
2-Methylnaphthalene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
2-Methylphenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
2-Nitroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
2-Nitrophenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
3,3'-Dichlorobenzidine	NA	NA	10.8	42.6	364	0.148	ND	U	ND	U	ND	U	ND	U	ND	U
3-Nitroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4,6-Dinitro-2-Methylphenol	NA	NA	4.89	54.7	19.1	0.0762	ND	U	ND	U	ND	U	ND	U	ND	U
4-Bromophenyl-Phenylether	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Chloro-3-Methylphenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Chloroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Chlorophenyl-Phenylether	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Methylphenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Nitroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Nitrophenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Acenaphthene	NA	NA	3,440	36,700	18,600	338	ND	U	ND	U	ND	U	ND	U	ND	U
Acenaphthylene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Anthracene	NA	NA	17,200	183,000	66,800	5,410	ND	U	ND	U	ND	U	ND	U	ND	U
Benzo(a)Anthracene	NA	NA	1.48	23.4	213	1.57	ND	U	ND	U	ND	U	ND	U	ND	U
Benzo(a)Pyrene	NA	NA	0.148	2.34	21.3	0.52	ND	U	ND	U	ND	U	ND	U	ND	U
Benzo(b)Fluoranthene	NA	NA	1.48	23.4	213	5.31	ND	U	ND	U	ND	U	ND	U	ND	U
Benzo(k)Fluoranthene	NA	NA	14.8	234	2,060	52	ND	U	ND	U	ND	U	ND	U	ND	U
Benzoic Acid	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Benzyl Alcohol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Bis(-2-Chloroethoxy)Methane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Bis(-2-Chloroethyl)Ether	NA	NA	2.68	14.2	77.8	0.000527	ND	U	ND	U	ND	U	ND	U	ND	U
Bis(2-Chloroisopropyl)Ether	NA	NA	91.5	454	3,100	0.0466	ND	U	ND	U	ND	U	ND	U	ND	U
Bis(2-Ethylhexyl)Phthalate	NA	NA	347	1,370	4,760	172	ND	U	ND	U	ND	U	ND	U	ND	U
Butylbenzylphthalate	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Chrysene	NA	NA	148	2,340	20,600	160	ND	U	ND	U	ND	U	ND	U	ND	U

TABLE II-8

SWMU 110 (Underground Waste Oil Tank #2336) Historical Subsurface Soil Analytical Data from 1997 Report[a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	Construction Worker SSL Screening Guideline [d]	Risk-Based SSL for a DAFof 20 [d]	SB12-0101 1.0 – 2.0 22-Feb-97		SB12-0102 2.0 - 3.0 22-Feb-97		SB12-0110 10.0 - 11.0 22-Feb-97		SB12-0121 21.0 - 22.0 22-Feb-97		SB12-0130 30.0 - 31.0 22-Feb-97	
							Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Dibenzo(a,h)Anthracene	NA	NA	0.148	2.34	21.3	1.69	ND	U	ND	U	ND	U	ND	U	ND	U
Dibenzofuran	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Diethylphthalate	NA	NA	48,900	547,000	191,000	193	ND	U	ND	U	ND	U	ND	U	ND	U
Dimethyl Phthalate	NA	NA	611,000	6,840,000	2,380,000	1,610	ND	U	ND	U	ND	U	ND	U	ND	U
Di-N-Butylphthalate	NA	NA	6,110	68,400	23,800	139	ND	U	ND	U	ND	U	ND	U	ND	U
Di-N-Octyl Phthalate	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Fluoranthene	NA	NA	2,290	24,400	8,910	2,430	ND	U	ND	U	ND	U	ND	U	ND	U
Fluorene	NA	NA	2,290	24,400	8,910	406	ND	U	ND	U	ND	U	ND	U	ND	U
Hexachlorobenzene	NA	NA	3.04	12	103	0.0796	ND	U	ND	U	ND	U	ND	U	ND	U
Hexachlorobutadiene	NA	NA	61.1	246	238	0.257	ND	U	ND	U	ND	U	ND	U	ND	U
Hexachlorocyclopentadiene	NA	NA	367	4,100	811	10.5	ND	U	ND	U	ND	U	ND	U	ND	U
Hexachloroethane	NA	NA	42.8	479	167	0.164	ND	U	ND	U	ND	U	ND	U	ND	U
Indeno(1,2,3-cd)Pyrene	NA	NA	1.48	23.4	213	17.3	ND	U	ND	U	ND	U	ND	U	ND	U
Isophorone	NA	NA	5,120	137,000	47,500	3.84	ND	U	ND	U	ND	U	ND	U	ND	U
Naphthalene	NA	NA	43	241	158	0.0713	ND	U	ND	U	ND	U	ND	U	ND	U
Nitrobenzene	NA	NA	53.5	300	332	0.0125	ND	U	ND	U	ND	U	ND	U	ND	U
N-Nitroso-Di-N-Propylamine	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
N-Nitrosodiphenylamine	NA	NA	993	3,910	33,600	11.3	ND	U	ND	U	ND	U	ND	U	ND	U
Pentachlorophenol	NA	NA	8.94	30	310	0.256	ND	U	ND	U	ND	U	ND	U	ND	U
Phenanthrene	NA	NA	1,830	20,500	7,150	571	ND	U	ND	U	ND	U	ND	U	ND	U
Phenol	NA	NA	18,300	205,000	68,800	99.5	ND	U	ND	U	ND	U	ND	U	ND	U
Pyrene	NA	NA	1,720	18,300	6,680	1,790	ND	U	ND	U	ND	U	ND	U	ND	U
Total Petroleum Hydrocarbons (mg/kg)																
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	2,400	NE	NE	69.7		34.4		77.5		16.9		21.5	

TABLE II-8
SWMU 110 (Underground Waste Oil Tank #2336) Historical Subsurface Soil Analytical Data from 1997 Reporta
Cannon AFB, New Mexico

Notes:

SB12-0101 = Soil boring location number (SB12); and sample depth (0101 = 1.0 – 2.0 ft bgs)

AFB	Air Force Base
bgs	Below ground surface
DAF	Dilution attenuation factor
EPA	U.S. Environmental Protection Agency
ft	Feet
ID	Identification
J	Concentration reported below the method reporting limit
mg/kg	Milligram per kilogram
NA	Not applicable or not available
ND	Not detected
NE	Not established
NMED	New Mexico Environment Department
Qual	Qualifier
RSL	Regional screening level
SSL	Soil screening level
SWMU	Solid Waste Management Unit
TPH	Total petroleum hydrocarbon
U	Value is below method detection limit/nondetect

(a) Harza, 1997. *Phase II RCRA Facility Investigation Report – Draft 1997 – Fire Training Area No. 4 SWMU Nos. 109, 110, 111, 112* Cannon Air Force Base, New Mexico.

(b) Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .

(c) NMED, 2012, Risk Assessment Guidance for Site Investigation and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau Voluntary Remediation Program, NMED, updated June 2012.

(d) In the absence of a total chromium screening level, chromium (III) is used. (NMED,2012)

(e) Value is the EPA RSL from the Mid-Atlantic Risk Assessment, Regional Screening Levels, on-line risk-based concentrations table for Residential Soil: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm.

(f) Value is for kerosene and jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program.

TABLE II-9

SWMU 111/112 (Unlined Pit/OWS #2336) Historical Analytical Data from 1986 RI Report [a]

Cannon AFB, New Mexico

FIELD ID							1091			1091			1091			1091			1091			1091		
SAMPLE DEPTH (ft bgs)							0 - 0.5			5.0 - 7.0			10.0 - 12.0			20.0 - 22.0			30.0 - 32.0			40.0 - 42.0		
DATE COLLECTED	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAF of 20 [c]	10/8/1991			10/8/1991			10/8/1991			10/8/1991			10/8/1991			10/8/1991		
							Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																								
Chromium [d]	11	13	117,000	1,703,333	465,000	1.97E+09	10.0	NA		6.4	NA		4.5	NA		8.8	NA		7.8	NA		6.6	NA	
Lead	12	8.7	400	800	800	NE	6.4	NA		4.8	NA		4.2	NA		6.6	NA		3.7	NA		2.2	NA	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Ethylbenzene	NE	NE	68.4	378	1830	0.26	ND	NA		NS			NS			NS			NS			NS		
Xylenes (total)	NE	NE	814	3,980	743	3	0.0	NA	J	NS			NS			NS			NS			NS		
TOTAL PETROLEUM HYDROCARBONS/ORGANICS (mg/kg)																								
Total Petroleum Hydrocarbons [e]	NE	NE	1,000	2,400	NE	NE	27.3	NA		NS			NS			NS			NS			NS		

TABLE II-9

SWMU 111/112 (Unlined Pit/OWS #2336) Historical Analytical Data from 1986 RI Report [a]

Cannon AFB, New Mexico

FIELD ID							1091			1091			1095			1095			1095			1095		
SAMPLE DEPTH (ft bgs)							50.0 - 52.0			60.0 - 62.0			5.0 - 7.0			10.0 12.0			20.0 - 22.0			30.0 - 32.0		
DATE COLLECTED	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAF of 20 [c]	10/8/1991			10/8/1991			12/9/1991			12/9/1991			12/9/1991			12/9/1991		
							Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																								
Chromium [d]	11	13	117,000	1,703,333	465,000	1.97E+09	3.6	NA		6.1	NA		NS			NS			NS			NS		
Lead	12	8.7	400	800	800	NE	2.5	NA		2.3	NA		NS			NS			NS			NS		
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Ethylbenzene	NE	NE	68.4	378	1830	0.26	NS			NS			ND	NA		ND	NA		ND	NA		ND	NA	
Xylenes (total)	NE	NE	814	3,980	743	3	NS			NS			ND	NA		ND	NA		ND	NA		ND	NA	
TOTAL PETROLEUM HYDROCARBONS/ORGANICS (mg/kg)																								
Total Petroleum Hydrocarbons [e]	NE	NE	1,000	2,400	NE	NE	NS			NS			56.6	NA		ND	NA		ND	NA		ND	NA	

TABLE II-9

SWMU 111/112 (Unlined Pit/OWS #2336) Historical Analytical Data from 1986 RI Report [a]

Cannon AFB, New Mexico

FIELD ID							1095			1095			1095		
SAMPLE DEPTH (ft bgs)							40.0 - 42.0			50.0 - 52.0			60.0 - 62.0		
DATE COLLECTED	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAF of 20 [c]	12/9/1991			12/9/1991			12/9/1991		
							Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)															
Chromium [d]	11	13	117,000	1,703,333	465,000	1.97E+09	NS			NS			NS		
Lead	12	8.7	400	800	800	NE	NS			NS			NS		
VOLATILE ORGANIC COMPOUNDS (mg/kg)															
Ethylbenzene	NE	NE	68.4	378	1830	0.26	ND	NA		ND	NA		ND	NA	
Xylenes (total)	NE	NE	814	3,980	743	3	ND	NA		ND	NA		ND	NA	
TOTAL PETROLEUM HYDROCARBONS/ORGANICS (mg/kg)															
Total Petroleum Hydrocarbons [e]	NE	NE	1,000	2,400	NE	NE	ND	NA		ND	NA		ND	NA	

TABLE II-9
SWMU 111 (Unlined Pit) Historical Analytical Data from 1986 RI Report a
Cannon AFB, New Mexico

Notes:

AFB	Air Force Base
bgs	Below ground surface
DAF	Dilution attenuation factor
ft	Feet
ID	Identification
J	Concentration reported below the method reporting limit
mg/kg	Milligram per kilogram
ND	Not detected
NE	Not established
NMED	New Mexico Environment Department
NS	Not sampled
Qual	Qualifier
RL	Reporting limit
SSL	Soil screening level
SWMU	Solid Waste Management Unit
TPH	Total petroleum hydrocarbon

(a) Woodward-Clyde, 1992, *Remedial Investigation Report for 18 Solid Waste Management Units* , Cannon Air Force Base, New Mexico, October.

(b) Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .

(c) NMED, 2012, Risk Assessment Guidance for Site Investigation and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau Voluntary Remediation Program, NMED, updated June 2012.

(d) In the absence of a total chromium screening level, chromium (III) is used. (NMED,2012)

(e) Value is for kerosene and jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program.

TABLE II-10

SWMUs 111/112 (unlined Pit and Oil/Water Separator #2336) Soil Analytical Data from 1997 RFI Report [a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAFof 20 [c]	SB14-0101 1.0 – 2.0 23-Feb-97		SB14-0102 2.0 - 3.0 23-Feb-97		SB14-0115 15.0 - 16.0 23-Feb-97	
							Result	Qual	Result	Qual	Result	Qual
METALS (mg/kg)												
Aluminum	8,950	12,214	78,000	1,130,000	40,700	1,100,000	3,530		6,800		4,650	
Antimony	3.15	16	31.3	454	124	13.2	3.7	J	4.2	J	3.0	J
Arsenic	3.6	4.3	3.9	17.7	53	0.262	1.4		1.8		3.3	
Barium	670	890	15,600	223,000	4,350	6,030	68.4		56.8		192	
Beryllium	0.78	0.73	156	2,260	144	1,150	0.36		0.54		0.38	
Cadmium	0.435	1.3	70.3	897	277	27.5	ND	U	ND	U	ND	U
Calcium	44,800	237,498	NE	NE	NE	NE	2,950		1,580		198,000	
Chromium [d]	11	13	117,000	1,703,333	465,000	1,970,000,000	5.7		7.7		5.3	
Cobalt [e]	6.6	4.7	23	300	NE	NE	2.97		3.47		2.37	
Copper	18.3	8.3	3,130	45,400	12,400	1,030	5.37		5.17		2.97	
Iron	10,100	13,148	54,800	795,000	217,000	12,900	5,280		7,490		3,870	
Lead	12	8.7	400	800	800	NE	21.5		6.9		3.2	
Magnesium	1,930	19,300	NE	NE	NE	NE	702		1,230		4,950	
Manganese	307	333	1,860	26,700	440	1,140	137		97.6		29.7	
Mercury	0.056	0.019	15.6	73.6	13.6	0.654	ND	U	ND	U	ND	U
Nickel	11	15	1,560	22,500	6,190	953	5.3		7.0		5.5	
Potassium	2,691	2,512	NE	NE	NE	NE	897		1,350		1,480	
Selenium	0.26	1.1	391	5,680	1,550	19.3	0.083	J	ND	U	ND	U
Silver	0.4	2.7	391	5,680	1,550	31.3	ND	U	ND	U	ND	U
Sodium	102	1,227	NE	NE	NE	NE	100		57.4		281	
Thallium	0.6	2.65	0.782	11.4	3.1	0.52	ND	U	ND	U	ND	U
Vanadium	23	33	391	5,680	1,550	3,650	12.9		15.4		18	
Zinc	32	31	23,500	341,000	92,900	13,600	11.9		14.5		8.7	
Cyanide (total)	NE	NE	46.9	681	186	4.41	ND	U	ND	U	ND	U

TABLE II-10

SWMUs 111/112 (unlined Pit and Oil/Water Separator #2336) Soil Analytical Data from 1997 RFI Report [a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAFof 20 [c]	SB14-0101 1.0 – 2.0 23-Feb-97		SB14-0102 2.0 - 3.0 23-Feb-97		SB14-0115 15.0 - 16.0 23-Feb-97	
							Result	Qual	Result	Qual	Result	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
1,1,1,2-Tetrachloroethane	NA	NA	29.1	161	779	0.0329	ND	U	ND	U	ND	U
1,1,1-Trichloroethane	NA	NA	15,600	78,900	14,800	58.2	ND	U	ND	U	ND	U
1,1,2,2-Tetrachloroethane	NA	NA	8.02	43.5	221	0.00426	ND	U	ND	U	ND	U
1,1,2-Trichloroethane	NA	NA	2.81	13.3	472	0.00223	ND	U	ND	U	ND	U
1,1-Dichloroethane	NA	NA	64.5	359	1,700	0.12	ND	U	ND	U	ND	U
1,1-Dichloroethene	NA	NA	449	2,290	432	2.32	ND	U	ND	U	ND	U
1,1-Dichloropropene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
1,2,3-Trichlorobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
1,2,3-Trichloropropane	NA	NA	0.0497	37.6	7.23	0.00005	ND	U	ND	U	ND	U
1,2,4-Trichlorobenzene	NA	NA	73	367	68.7	0.183	ND	U	ND	U	ND	U
1,2,4-Trimethylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
1,2-Dibromo-3-Chloropropane	NA	NA	1.86	1.08	5.07	0.000022	ND	U	ND	U	ND	U
1,2-Dibromoethane	NA	NA	0.588	3.22	16	0.000308	ND	U	ND	U	ND	U
1,2-Dichlorobenzene	NA	NA	2,310	14,000	2,710	5.6	ND	U	ND	U	ND	U
1,2-Dichloroethane	NA	NA	7.89	43.5	58.7	0.00711	ND	U	ND	U	ND	U
1,2-Dichloropropane	NA	NA	15.2	84.4	25	0.0214	ND	U	ND	U	ND	U
1,3,5-Trimethylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
1,3-Dichloropropane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	NA	NA	31.7	177	831	0.0639	ND	U	ND	U	ND	U
2,2-Dichloropropane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
2-Butanone	NA	NA	37,100	375,000	84,300	25.5	ND	U	ND	U	ND	U
2-Chlorotoluene	NA	NA	1,560	22,700	6,190	11.2	ND	U	ND	U	ND	U
2-Hexanone	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4-Chlorotoluene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4-Methyl-2-Pentanone	NA	NA	5,820	73,800	18,500	7.68	ND	U	ND	U	ND	U
Acetone	NA	NA	66,600	868,000	221,000	77.1	ND	U	ND	U	ND	U
Benzene	NA	NA	15.4	84.7	138	0.0345	ND	U	ND	U	ND	U

TABLE II-10

SWMUs 111/112 (unlined Pit and Oil/Water Separator #2336) Soil Analytical Data from 1997 RFI Report [a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAFof 20 [c]	SB14-0101 1.0 – 2.0 23-Feb-97		SB14-0102 2.0 - 3.0 23-Feb-97		SB14-0115 15.0 - 16.0 23-Feb-97	
							Result	Qual	Result	Qual	Result	Qual
Bromobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Bromochloromethane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Bromodichloromethane	NA	NA	5.41	30.1	143	0.00541	ND	U	ND	U	ND	U
Bromoform	NA	NA	616	2,420	4,760	12.1	ND	U	ND	U	ND	U
Bromomethane	NA	NA	16.5	86.5	16.4	0.0385	ND	U	ND	U	ND	U
Carbon Disulfide	NA	NA	1,530	8,330	1,580	5.65	ND	U	ND	U	ND	U
Carbon Tetrachloride	NA	NA	10.8	59.8	226	0.0321	ND	U	ND	U	ND	U
Chlorobenzene	NA	NA	376	2,120	406	0.984	ND	U	ND	U	ND	U
Chloroethane	NA	NA	29,800	141,000	26,100	107	ND	U	ND	U	ND	U
Chloroform	NA	NA	5.86	32.7	154	0.00918	ND	U	ND	U	ND	U
Chloromethane	NA	NA	275	1,290	241	0.879	ND	U	ND	U	ND	U
cis-1,2-dichloroethene	NA	NA	156	2,270	619	0.367	ND	U	ND	U	ND	U
cis-1,3-Dichloropropene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Dibromochloromethane	NA	NA	12.1	62.4	332	0.00661	ND	U	ND	U	ND	U
Dibromomethane	NA	NA	51.6	254	3,100	0.0342	ND	U	ND	U	ND	U
Dichlorodifluoromethane	NA	NA	168	798	149	7.43	ND	U	ND	U	ND	U
Ethylbenzene	NA	NA	68.4	378	1,830	0.26	ND	U	ND	U	ND	U
Hexachlorobutadiene	NA	NA	61.1	246	238	0.257	ND	U	ND	U	ND	U
Isopropylbenzene	NA	NA	2,430	14,500	2,810	17.3	ND	U	ND	U	ND	U
m & p-Xylene	NA	NA	774	3,780	705	3.12	ND	U	ND	U	ND	U
Methylene Chloride	NA	NA	409	4,700	1,120	0.824	ND	U	ND	U	ND	U
Naphthalene	NA	NA	43	241	158	0.0713	ND	U	ND	U	ND	U
n-Butylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
n-Propylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
o-Xylene	NA	NA	898	4,410	823	3.13	ND	U	ND	U	ND	U
p-Isopropyltoluene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
sec-Butylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Styrene	NA	NA	7,280	50,000	9,990	27.7	ND	U	ND	U	ND	U
tert-Butylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U

TABLE II-10

SWMUs 111/112 (unlined Pit and Oil/Water Separator #2336) Soil Analytical Data from 1997 RFI Report [a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAFof 20 [c]	SB14-0101 1.0 – 2.0 23-Feb-97		SB14-0102 2.0 - 3.0 23-Feb-97		SB14-0115 15.0 - 16.0 23-Feb-97	
							Result	Qual	Result	Qual	Result	Qual
Tetrachloroethene	NA	NA	7.02	36.6	212	0.00861	ND	U	ND	U	ND	U
Toluene	NA	NA	5,270	57,700	13,400	25.3	ND	U	ND	U	ND	U
trans-1,2-Dichloroethene	NA	NA	270	1,440	273	0.538	ND	U	ND	U	ND	U
trans-1,3-Dichloropropene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Trichloroethene	NA	NA	8.77	41.3	7.68	0.0211	ND	U	ND	U	ND	U
Trichloroflouromethane	NA	NA	1,410	6,940	1,300	17.8	ND	U	ND	U	ND	U
Vinyl Chloride	NA	NA	0.728	26.1	149	0.00108	ND	U	ND	U	ND	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
1,2,4-Trichlorobenzene	NA	NA	73	367	68.7	0.183	ND	U	ND	U	ND	U
1,2-Dichlorobenzene	NA	NA	2,310	14,000	2,710	5.6	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	NA	NA	31.7	177	831	0.0639	ND	U	ND	U	ND	U
2,4,5-Trichlorophenol	NA	NA	6,110	68,400	23,800	207	ND	U	ND	U	ND	U
2,4,6-Trichlorophenol	NA	NA	61.1	684	238	2.07	ND	U	ND	U	ND	U
2,4-Dichlorophenol	NA	NA	183	2,050	715	2	ND	U	ND	U	ND	U
2,4-Dimethylphenol	NA	NA	1,220	13,700	4,760	13.3	ND	U	ND	U	ND	U
2,4-Dinitrophenol	NA	NA	122	1,370	476	1.26	ND	U	ND	U	ND	U
2,4-Dinitrotoluene	NA	NA	15.7	61.8	476	0.0449	ND	U	ND	U	ND	U
2,6-Dinitrotoluene	NA	NA	61.1	684	238	0.77	ND	U	ND	U	ND	U
2-Chloronaphthalene	NA	NA	6260	90,800	24,800	227	ND	U	ND	U	ND	U
2-Chlorophenol	NA	NA	391	5,680	1,550	2.31	ND	U	ND	U	ND	U
2-Methylnaphthalene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
2-Methylphenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
2-Nitroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
2-Nitrophenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
3,3'-Dichlorobenzidine	NA	NA	10.8	42.6	364	0.148	ND	U	ND	U	ND	U
3-Nitroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4,6-Dinitro-2-Methylphenol	NA	NA	4.89	54.7	19.1	0.0762	ND	U	ND	U	ND	U
4-Bromophenyl-Phenylether	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U

TABLE II-10

SWMUs 111/112 (unlined Pit and Oil/Water Separator #2336) Soil Analytical Data from 1997 RFI Report [a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAFof 20 [c]	SB14-0101 1.0 – 2.0 23-Feb-97		SB14-0102 2.0 - 3.0 23-Feb-97		SB14-0115 15.0 - 16.0 23-Feb-97	
							Result	Qual	Result	Qual	Result	Qual
4-Chloro-3-Methylphenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4-Chloroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4-Chlorophenyl-Phenylether	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4-Methylphenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4-Nitroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4-Nitrophenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Acenaphthene	NA	NA	3,440	36,700	18,600	338	ND	U	ND	U	ND	U
Acenaphthylene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Anthracene	NA	NA	17,200	183,000	66,800	5,410	ND	U	ND	U	ND	U
Benzo(a)Anthracene	NA	NA	1.48	23.4	213	1.57	ND	U	ND	U	ND	U
Benzo(a)Pyrene	NA	NA	0.148	2.34	21.3	0.52	ND	U	ND	U	ND	U
Benzo(b)Fluoranthene	NA	NA	1.48	23.4	213	5.31	ND	U	ND	U	ND	U
Benzo(k)Fluoranthene	NA	NA	14.8	234	2,060	52	ND	U	ND	U	ND	U
Benzoic Acid	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Benzyl Alcohol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Bis(-2-Chloroethoxy)Methane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Bis(-2-Chloroethyl)Ether	NA	NA	2.68	14.2	77.8	0.000527	ND	U	ND	U	ND	U
Bis(2-Chloroisopropyl)Ether	NA	NA	91.5	454	3,100	0.0466	ND	U	ND	U	ND	U
Bis(2-Ethylhexyl)Phthalate	NA	NA	347	1,370	4,760	172	ND	U	ND	U	ND	U
Butylbenzylphthalate	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Chrysene	NA	NA	148	2,340	20,600	160	ND	U	ND	U	ND	U
Dibenzo(a,h)Anthracene	NA	NA	0.148	2.34	21.3	1.69	ND	U	ND	U	ND	U
Dibenzofuran	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Diethylphthalate	NA	NA	48,900	547,000	191,000	193	ND	U	ND	U	ND	U
Dimethyl Phthalate	NA	NA	611,000	6,840,000	2,380,000	1,610	ND	U	ND	U	ND	U
Di-N-Butylphthalate	NA	NA	6,110	68,400	23,800	139	ND	U	ND	U	ND	U
Di-N-Octyl Phthalate	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Fluoranthene	NA	NA	2,290	24,400	8,910	2,430	ND	U	ND	U	ND	U
Fluorene	NA	NA	2,290	24,400	8,910	406	ND	U	ND	U	ND	U

TABLE II-10

SWMUs 111/112 (unlined Pit and Oil/Water Separator #2336) Soil Analytical Data from 1997 RFI Report [a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAFof 20 [c]	SB14-0101 1.0 – 2.0 23-Feb-97		SB14-0102 2.0 - 3.0 23-Feb-97		SB14-0115 15.0 - 16.0 23-Feb-97	
							Result	Qual	Result	Qual	Result	Qual
Hexachlorobenzene	NA	NA	3.04	12	103	0.0796	ND	U	ND	U	ND	U
Hexachlorobutadiene	NA	NA	61.1	246	238	0.257	ND	U	ND	U	ND	U
Hexachlorocyclopentadiene	NA	NA	367	4,100	811	10.5	ND	U	ND	U	ND	U
Hexachloroethane	NA	NA	42.8	479	167	0.164	ND	U	ND	U	ND	U
Indeno(1,2,3-cd)Pyrene	NA	NA	1.48	23.4	213	17.3	ND	U	ND	U	ND	U
Isophorone	NA	NA	5,120	137,000	47,500	3.84	ND	U	ND	U	ND	U
Naphthalene	NA	NA	43	241	158	0.0713	ND	U	ND	U	ND	U
Nitrobenzene	NA	NA	53.5	300	332	0.0125	ND	U	ND	U	ND	U
N-Nitroso-Di-N-Propylamine	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
N-Nitrosodiphenylamine	NA	NA	993	3,910	33,600	11.3	ND	U	ND	U	ND	U
Pentachlorophenol	NA	NA	8.94	30	310	0.256	ND	U	ND	U	ND	U
Phenanthrene	NA	NA	1,830	20,500	7,150	571	ND	U	ND	U	ND	U
Phenol	NA	NA	18,300	205,000	68,800	99.5	ND	U	ND	U	ND	U
Pyrene	NA	NA	1,720	18,300	6,680	1,790	ND	U	ND	U	ND	U
Total Petroleum Hydrocarbons (mg/kg)												
Total Petroleum Hydrocarbons [f]	NE	NE	1,000	2,400	NE	NE	**1,040**		17.6		17.9	

TABLE II-10
SWMUs 111/112 (unlined Pit and Oil/Water Separator #2336) Soil Analytical Data from 1997 RFI Report a
Cannon AFB, New Mexico

Notes:

SB14-0101 = Soil boring location number (SB14); and sample depth (0101 = 1.0 – 2.0 ft bgs)

AFB	Air Force Base
bgs	Below ground surface
DAF	Dilution attenuation factor
EPA	U.S. Environmental Protection Agency
ft	Feet
ID	Identification
J	Concentration reported below the method reporting limit
mg/kg	Milligram per kilogram
NA	Not applicable or not available
ND	Not detected
NE	Not established
NMED	New Mexico Environment Department
Qual	Qualifier
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RSL	Regional screening level
SSL	Soil screening level
SWMU	Solid Waste Management Unit
TPH	Total petroleum hydrocarbon
U	Value is below method detection limit/nondetect

(a) Harza, 1997. *Phase II RCRA Facility Investigation Report – Draft 1997 – Fire Training Area No. 4 SWMU Nos. 109, 110, 111, 112* Cannon Air Force Base, New Mexico.

(b) Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .

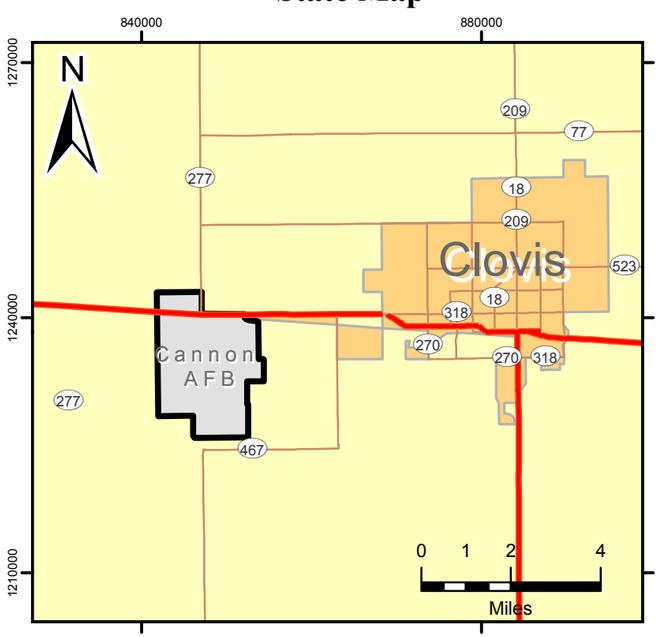
(c) NMED, 2012, Risk Assessment Guidance for Site Investigation and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau Voluntary Remediation Program, NMED, updated June 2012.

(d) In the absence of a total chromium screening level, chromium (III) is used. (NMED,2012)

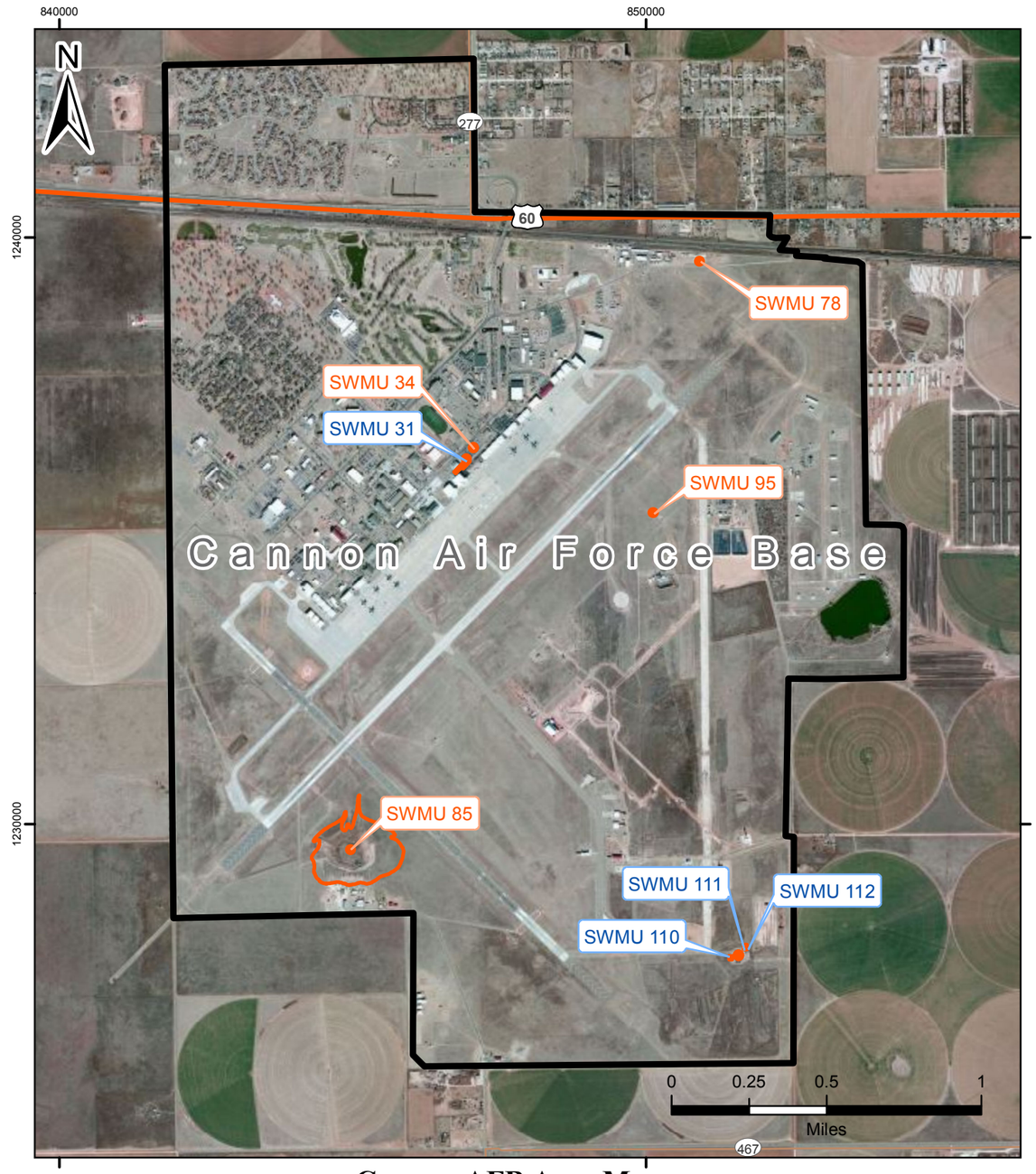
(e) Value is the EPA RSL from the Mid-Atlantic Risk Assessment, Regional Screening Levels, on-line risk-based concentrations table for Residential Soil: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm.

(f) Value is for kerosene and jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program.

State Map



Local Area Map



Cannon AFB Area Map

LEGEND

- SWMU Boundary
- Cannon AFB Boundary
- City of Clovis
- States (State)
- Cannon AFB
- Interstate
- Highway
- Major Road
- SWMU 78 — CAC Sites With Controls
- SWMU 31 — CAC Sites Without Controls

NOTES

AFB = Air Force Base
AGE = Aerospace Ground Equipment
DOE = U.S. Department of Energy
FTA = Fire Training Area
No. = Number
SWMU = Solid Waste Management Unit
USAF = U.S. Air Force

SWMU	Description
SMWU 31/MY-C031	AGE Maintenance shop pad
SWMU 34/SD-15	AGE drainage ditch
SWMU 78/FT-06	FTA No. 1
SWMU 85/SD-12	Stormwater collection point
SMWU 95/SD-20	NE stormwater drainage area
SMWU 110/FT-C110	Underground waste oil tank No. 2336 at FTA No. 4
SMWU 111/FT-C111	Unlined pit at FTA 4
SMWU 112/FT-C112	Oil/water separator No. 2336 at FTA 4

Revision Date: 04/19/12
Projection : NAD83 State Plane New Mexico East FIPS 3002 Feet

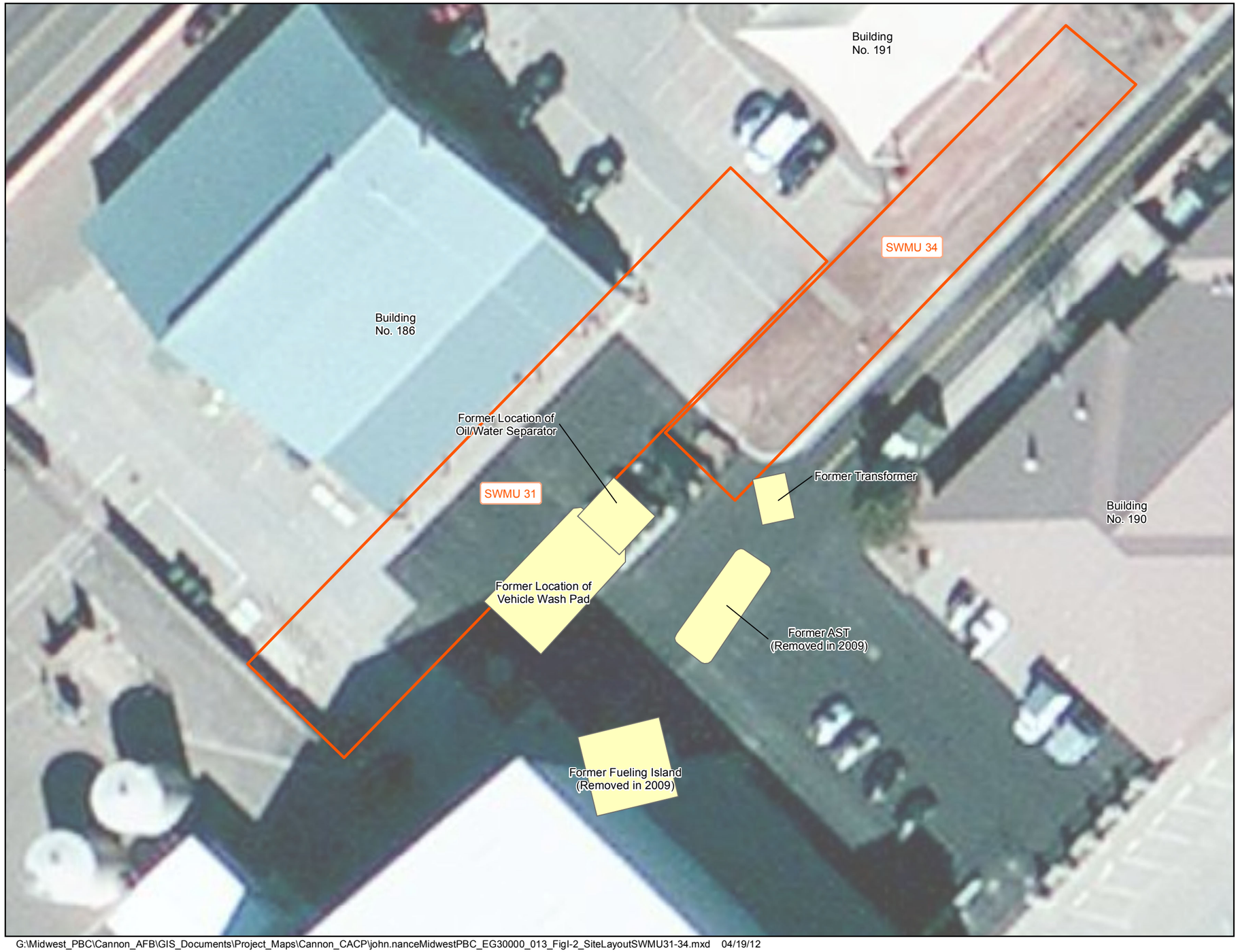
CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE MANAGEMENT UNITS

FIGURE I-1

LOCATION MAP OF EIGHT SWMUs

G:\Midwest_PBC\Cannon_AFB\GIS_Documents\Project_Maps\Cannon_CACP\john.nanceMidwestPBC_EG30000_012_FigI-1_SiteLoc.mxd 04/19/12



G:\Midwest_PBC\Cannon_AFB\GIS_Documents\Project_Maps\Cannon_CACP\john.nanceMidwestPBC_EG30000_013_FigI-2_SiteLayoutSWMU31-34.mxd 04/19/12

LEGEND

- SWMU Boundary
- Former Structures
- Cannon AFB Boundary
- Highway
- Major Road

NOTES

AGE = Aerospace Ground Equipment
AST = Aboveground Storage Tank
No. = Number
SWMU = Solid Waste Management Unit

Former Structure Locations and SWMU Boundaries are approximated based on available information

N

SITE LOCATION

Revision Date:04/19/12

0 15 30 60
Feet

0 5 10 20
Meters

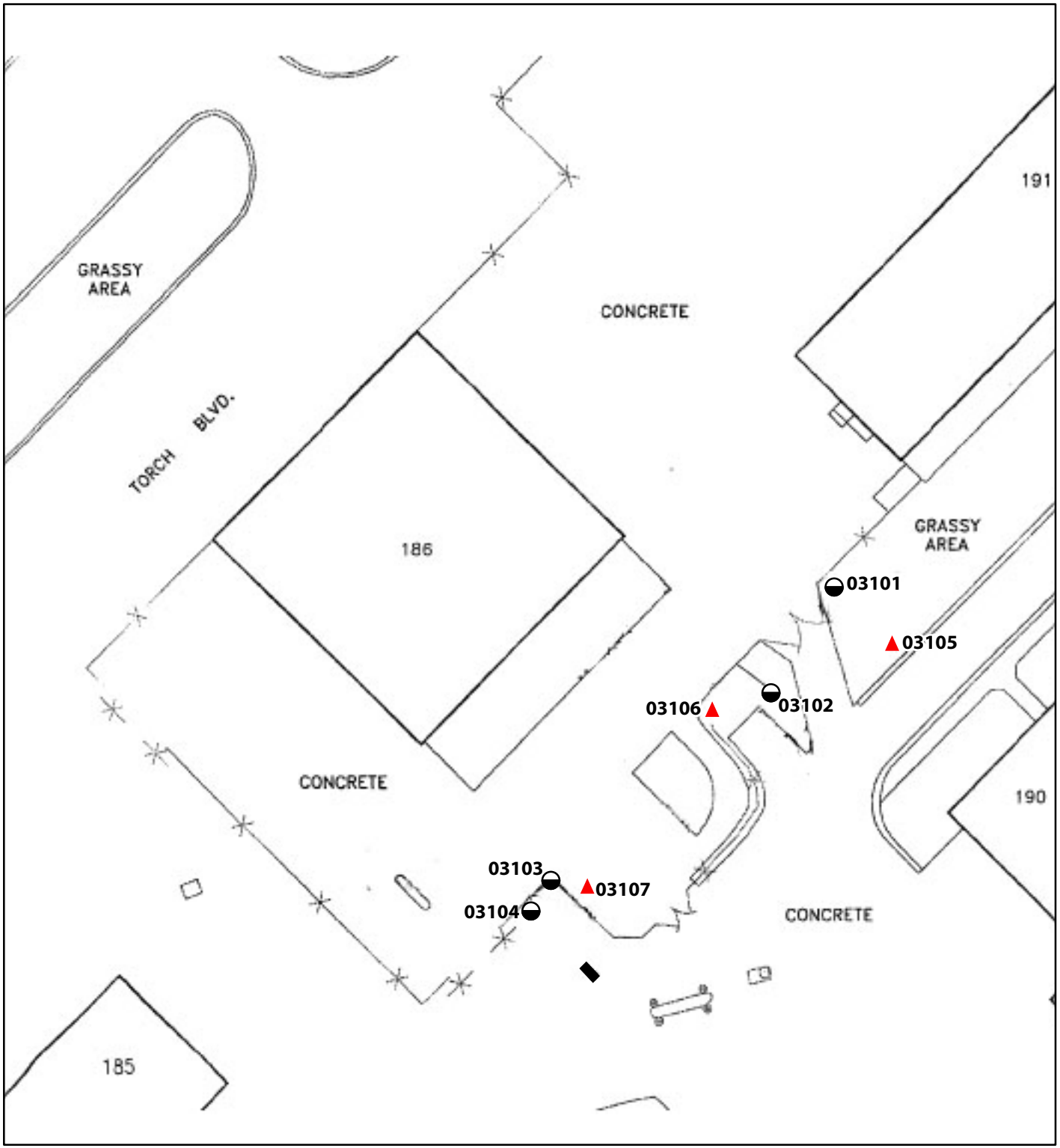
Projection : NAD_1983_StatePlane_New_Mexico_East_FIPS_3001_Feet

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE MANGEMENT UNITS

FIGURE I-2

SITE FEATURES AND LOCATION MAP
SWMUs 31 (AGE Maintenance Pad) and 34 (AGE Drainage Ditch)



LEGEND

- RFI Phase I Soil Boring Location (Woodward-Clyde, 1994)
- RFI Phase II Soil Boring Location (Woodward-Clyde, 1995)
- Oil/Water Separator
- Fence

AGE = Aerospace Ground Equipment
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
SWMU = Solid Waste Management Unit

SITE LOCATION

Revision Date: 03/12/12

N

0 50 100
Feet

0 25
Meters

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL EIGHT SOLID WASTE MANAGEMENT UNITS

FIGURE I-3

RFI PHASE I & II
SAMPLING LOCATIONS
SWMU 31
(AGE MAINTENANCE PAD)

I:\144106_EG30000_A11.ai

G:\Midwest_PBC\Cannon_AFB\GIS_Documents\Project_Maps\Cannon_CACP\john.nanceMidwestPBC_EG30000_014_FigI-8_PrevSmpl_SWMU85.mxd 06/29/12

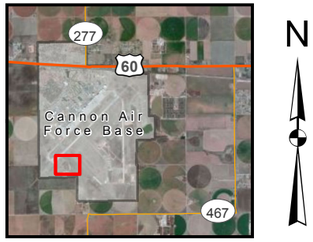
LEGEND

- Soil Boring Location *(Previous Investigation, URS 2008)*
- Soil Boring Location *(RFI Addendum, URS 2008)*
- Surface Soil Sample Location *(RFI Addendum, URS 2008)*
- SWMU Boundary
- Cannon AFB Boundary
- Highway
- Major Road

NOTES

AFB = Air Force Base
SWMU = Solid Waste Management Unit

Sample Locations and SWMU Boundary are approximated based on available information



SITE LOCATION

Revision Date:06/29/12

0 100 200 400 Feet

0 30 60 120 Meters

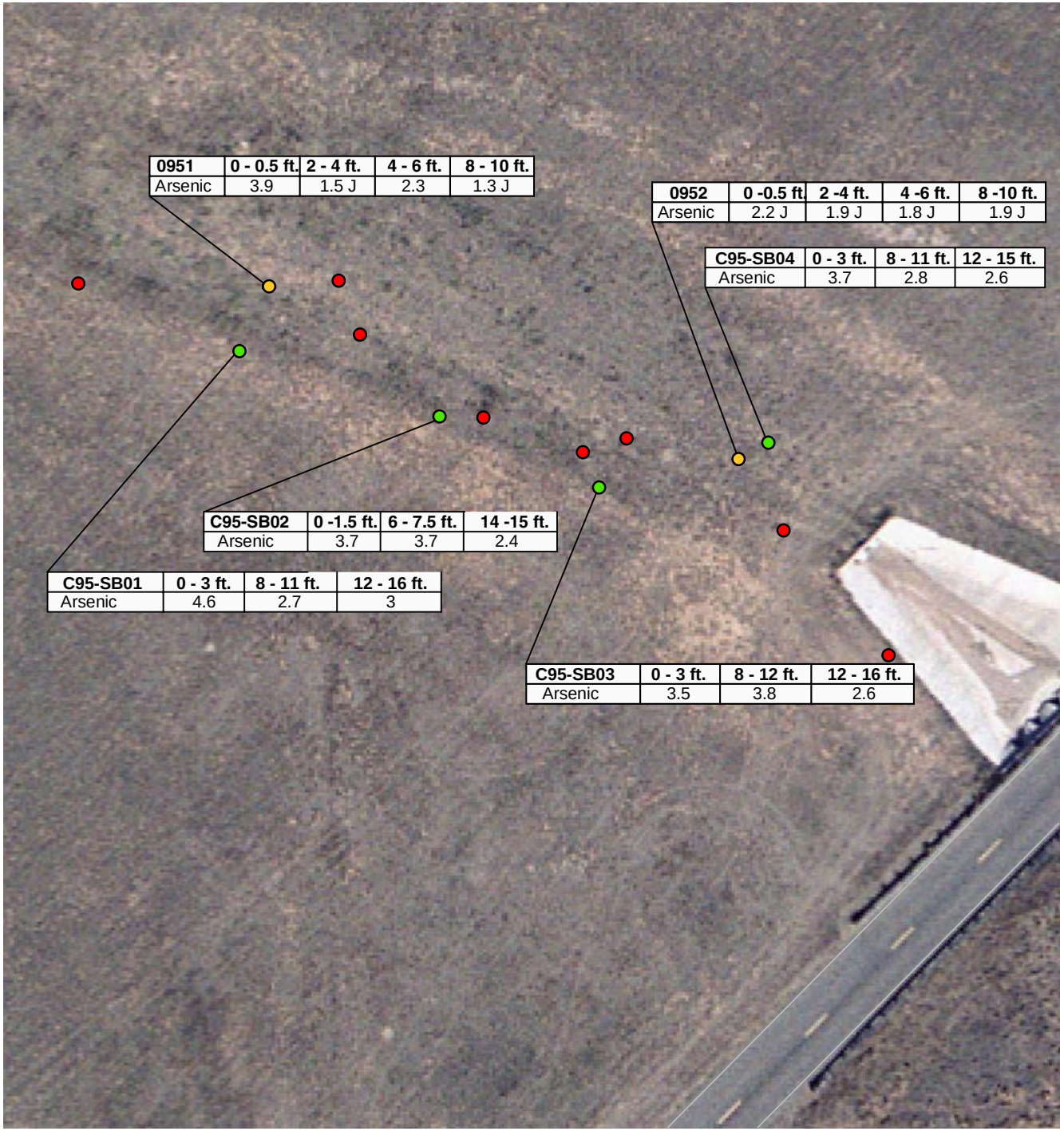
Projection : NAD_1983_StatePlane_New_Mexico_East_FIPS_3001_Feet

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE MANAGEMENT UNITS

FIGURE I-4

PREVIOUS SAMPLING LOCATIONS
SWMU 85
(STORMWATER COLLECTION POINT)



0951	0 - 0.5 ft.	2 - 4 ft.	4 - 6 ft.	8 - 10 ft.
Arsenic	3.9	1.5 J	2.3	1.3 J

0952	0 -0.5 ft.	2 -4 ft.	4 -6 ft.	8 -10 ft.
Arsenic	2.2 J	1.9 J	1.8 J	1.9 J

C95-SB04	0 - 3 ft.	8 - 11 ft.	12 - 15 ft.
Arsenic	3.7	2.8	2.6

C95-SB02	0 -1.5 ft.	6 - 7.5 ft.	14 -15 ft.
Arsenic	3.7	3.7	2.4

C95-SB01	0 - 3 ft.	8 - 11 ft.	12 - 16 ft.
Arsenic	4.6	2.7	3

C95-SB03	0 - 3 ft.	8 - 12 ft.	12 - 16 ft.
Arsenic	3.5	3.8	2.6

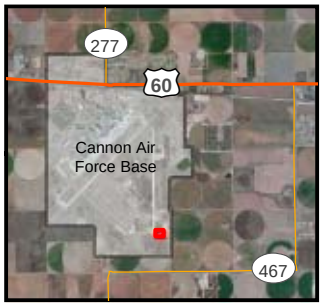
LEGEND

- IRP RI Soil Boring Location (Walk-Haydel, 1990)
- RI Soil Boring Location (Woodward-Clyde, 1992)
- RFI Addendum Soil Boring Location (URS, 2009)

Notes: Sample Results are in mg/kg

ft. = Feet
IRP = Installation Restoration Program
J = Estimated
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
RI = Remedial Investigation
SWMU = Solid Waste Management Unit

Based on additional RFI 2008 sample results RI data for soil borings B-1 through B-11 is considered invalid.



SITE LOCATION

Revision Date: 03/12/12

N

0 25 50
Feet

0 15
Meters

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE
MANAGEMENT UNITS

FIGURE I-5

PREVIOUS SAMPLING RESULTS
SWMU 95 - (NORTHEAST STORMWATER
DRAINAGE AREA)

I:\144106_EG30000_A2.ai

LEGEND

- SWMU Boundary
- Former Structure Location
- Landfarm Approximate Boundary
- Fence
- Highway
- Major Road
- Cannon AFB Boundary

NOTES

AFB = Air Force Base
No. = Number
SWMU = Solid Waste Management Unit

Underground Tank, SWMU 109 boundary, Vault Locations and Landfarm Boundary are approximated based on available information

N

SITE LOCATION

Revision Date:02/28/13

0 30 60 120
Feet

0 10 20 40
Meters

Projection : NAD_1983_StatePlane_New_Mexico_East_FIPS_3001_Feet

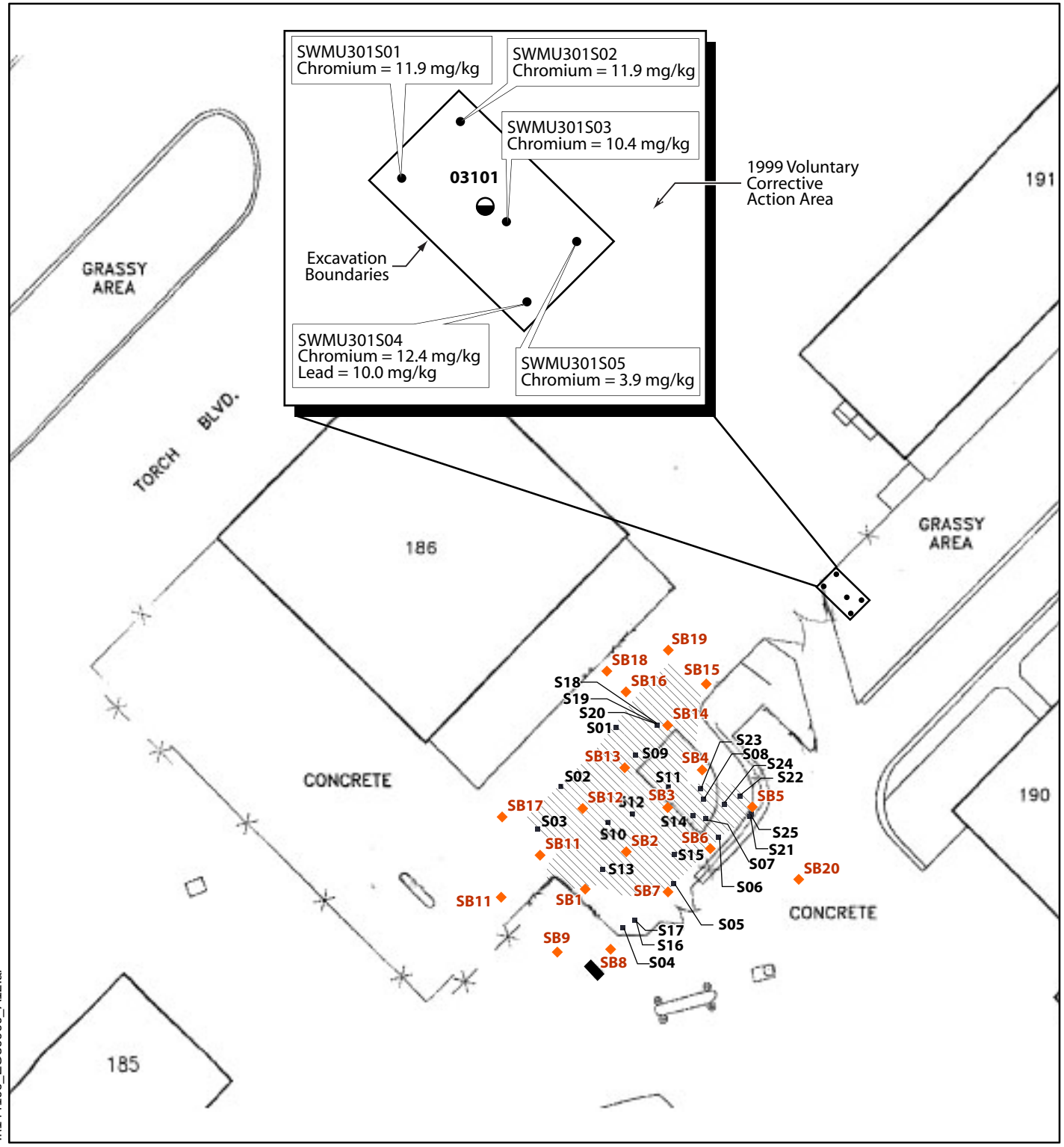
CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE
PROPOSAL
EIGHT SOLID WASTE MANAGEMENT UNITS

FIGURE I-6

SITE LAYOUT
SWMUs 109, 110, 111, and 112
(Fire Training Area No. 4)

G:\Midwest_PBC\Cannon_AFB\GIS_Documents\Project_Maps\Cannon_CACP\MidwestPBC_EG30030_001_FigI-6_SiteLayout_swmus109-112.mxd02/28/13



LEGEND

- RFI Phase I Soil Boring Location (Woodward-Clyde, 1994)
- Voluntary Corrective Measures Grab Sample Location (Foster Wheeler, 1999)
- Voluntary Corrective Action DPT Sample Locations (Bay West, Inc. and TetraTech, Inc., 2008)
- Voluntary Corrective Action Confirmation Soil Samples (TetraTech, 2009)
- Excavation Boundary
- Oil/Water Separator
- Fence

DPT = Direct Push Technology
FT = Feet
mg/kg = milligram per kilogram
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
SWMU = Solid Waste Management Unit

SITE LOCATION

Revision Date: 03/12/12

N

0 50 100
Feet

0 25
Meters

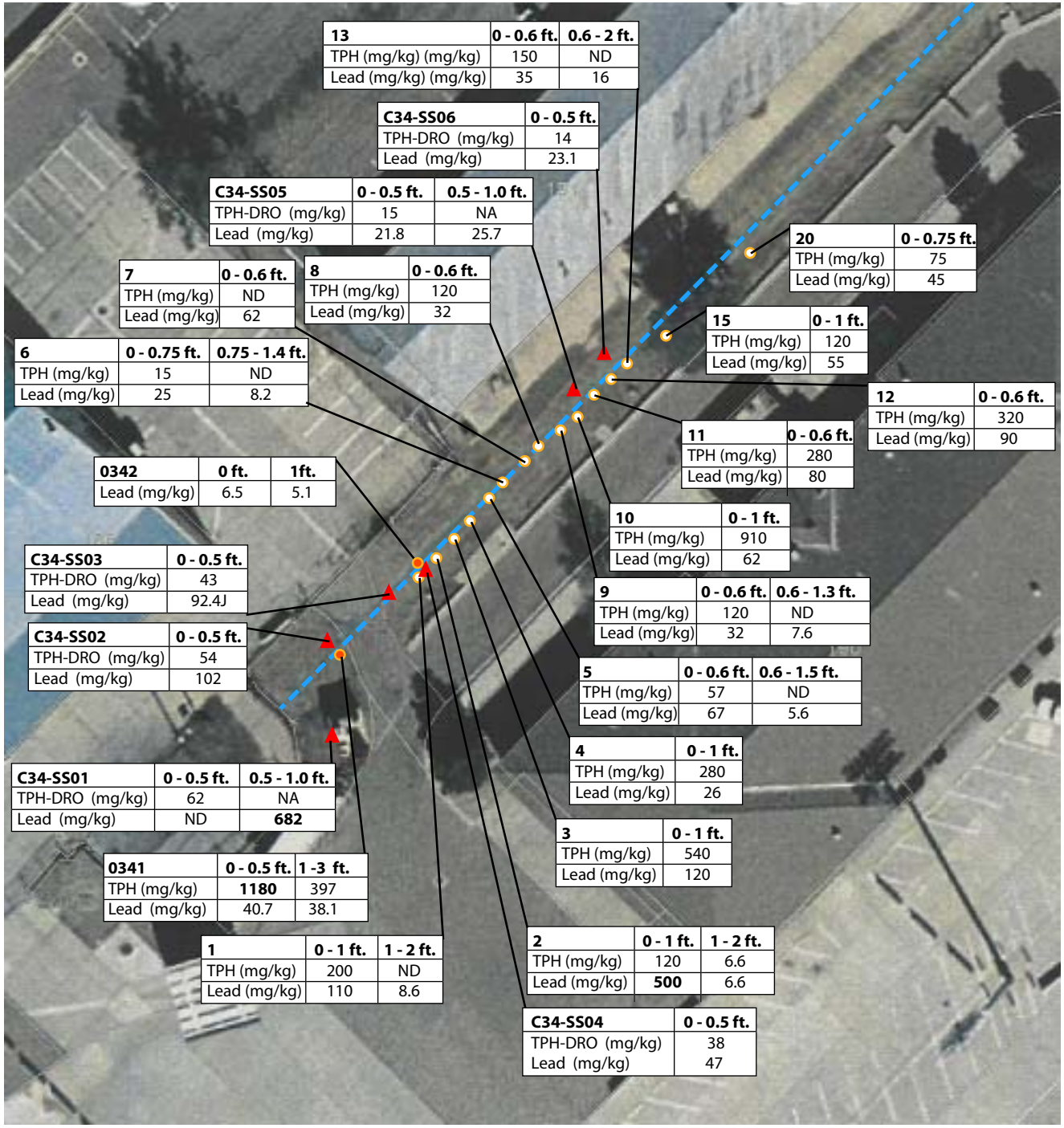
CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE
PROPOSAL EIGHT SOLID WASTE
MANAGEMENT UNITS

FIGURE I-7

VOLUNTARY CORRECTIVE ACTION
SAMPLING LOCATIONS
SWMU 31
(AGE MAINTENANCE PAD)

I:\144106_EG30000_A12.ai

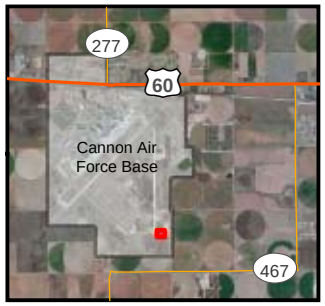


LEGEND

- Soil Boring Locations (Radian, 1987)
- Soil Boring Location (Woodward-Clyde, 1991)
- Soil Locations (URS, 2009)
- Ditch

NOTE: **Bold** Indicates an Exceedance

DRO	=	Diesel Range Organics
ft.	=	Feet
J	=	Estimated
(mg/kg)	=	milligram per kilogram
NA	=	Not Applicable
ND	=	Nondetect
RCRA	=	Resource Conservation and Recovery Act
SWMU	=	Solid Waste Management Unit
TPH	=	Total Petroleum Hydrocarbons



SITE LOCATION

Revision Date: 03/15/12

N

0 50 100
Feet

0 25
Meters

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE MANAGEMENT UNITS

FIGURE I-8

FIELD INVESTIGATION RESULTS AT SWMU 34 (AGE DRAINAGE DITCH)

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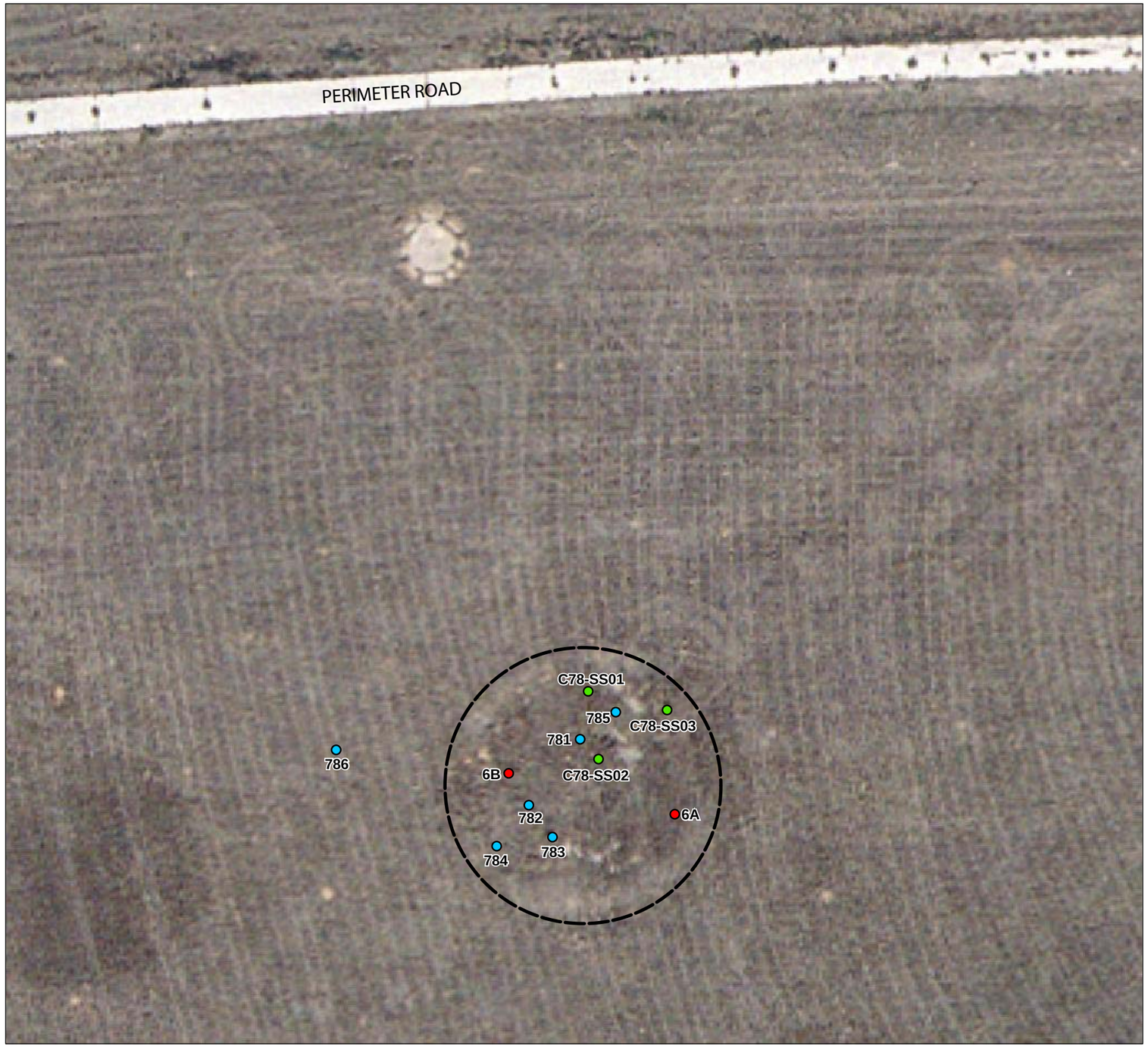
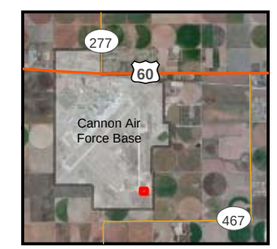


LEGEND

- IRP Phase II Field Investigation Soil Boring Location (Radian, 1986)
- RI Soil Boring Location (Woodward-Clyde, 1992)
- RFI Addendum Surface Soil Location (URS, 2009)
- SWMU Boundary

NOTES

IRP = Installation Restoration Program
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
RI = Remedial Investigation
SWMU = Solid Waste Management Unit



SITE LOCATION

Revision Date:03/08/12

N

0 25 50
Feet
0 15
Meters

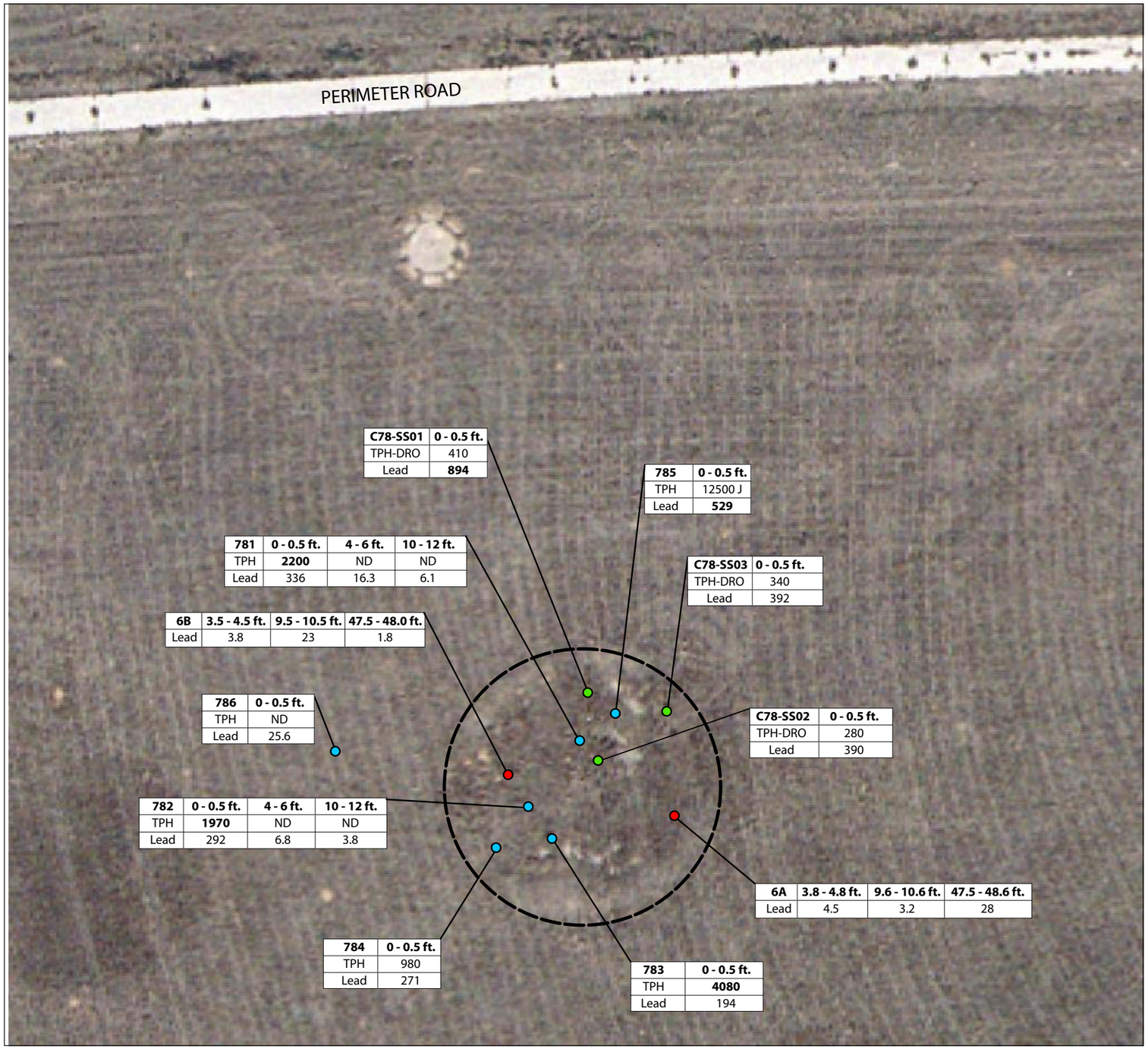
CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE
MANAGEMENT UNITS

FIGURE I-9

PREVIOUS SAMPLING LOCATIONS
SWMU 78 - (FIRE TRAINING AREA NO.1)

I:\144106_EG30000_B1.ai



LEGEND

- IRP Phase II Field Investigation Soil Boring Location (Radian, 1986)
- RI Soil Boring Location (Woodward-Clyde, 1992)
- RFI Addendum Surface Soil Location (URS, 2009)
- SWMU Boundary

NOTES

Sample Results are in mg/kg
Bold indicates an exceedance

DRO = Diesel Range Organics
ft. = Feet
IRP = Installation Restoration Program
J = Estimated
mg/kg = Milligram per Kilogram
ND = Nondetect
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
RI = Remedial Investigation
SWMU = Solid Waste Management Unit
TPH = Total Petroleum Hydrocarbons

SITE LOCATION

Revision Date:03/08/12

N

0 25 50
Feet

0 15
Meters

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE
MANAGEMENT UNITS

FIGURE I-10

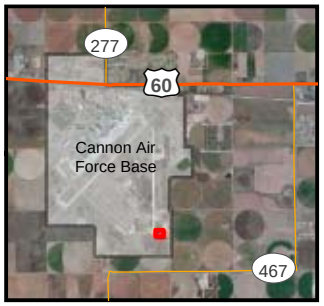
PREVIOUS SAMPLING LOCATIONS
WITH RESULTS
SWMU 78 - (FIRE TRAINING AREA NO.1)

I:\144106_EG30000_B2.ai

LEGEND

- IRP RI Soil Boring Location (Walk-Haydel, 1990)
- RI Soil Boring Location (Woodward-Clyde, 1992)
- RFI Addendum Soil Boring Location (URS, 2009)

IRP = Installation Restoration Program
RCRA = Resource Conservation and Recovery Act
RFI = RCRA Facility Investigation
RI = Remedial Investigation
SWMU = Solid Waste Management Unit



SITE LOCATION

Revision Date: 03/12/12

N

0 25 50
Feet

0 15
Meters

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE PROPOSAL
EIGHT SOLID WASTE
MANAGEMENT UNITS

FIGURE I-11

PREVIOUS SAMPLING LOCATIONS
SWMU 95 - (NORTHEAST STORMWATER
DRAINAGE AREA)

I:\144106_EG30000_A1.ai

LEGEND

Sample Locations

- Foster Wheeler Landfarm - 2000
- Harza Consulting - 1997
- Radian - 1985
- Walk, Hydel & Associates - 1988
- Woodward-Clyde - 1991
- SWMU Boundary
- Former Structure Location
- Landfarm Approximate Boundary
- Fence
- Highway
- Major Road
- Cannon AFB Boundary

NOTES

AFB = Air Force Base
No. = Number
SWMU = Solid Waste Management Unit
Underground Tank, SWMU 109 boundary, Vault Locations, Landfarm Boundary, and Radian sample locations are approximated based on available information

N

SITE LOCATION

Revision Date:02/28/13

0 30 60 120
Feet

0 10 20 40
Meters

Projection : NAD_1983_StatePlane_New_Mexico_East_FIPS_3001_Feet

CANNON AIR FORCE BASE, NEW MEXICO

CORRECTIVE ACTION COMPLETE
PROPOSAL
EIGHT SOLID WASTE MANAGEMENT UNITS

FIGURE I-12

PREVIOUS SAMPLING LOCATIONS
SWMUs 109, 110, 111, and 112
(Fire Training Area No. 4)

G:\Midwest_PBC\Cannon_AFB\GIS_Documents\Project_Maps\Cannon_CACP\MidwestPBC_EG30030_002_FigI-12_PreviousSamp.mxd02/28/13

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0311-0000			CAN031-0311-0002			CAN031-0311-0004			CAN031-0311-0008			CAN031-0312-0000			CAN031-0312-0002		
LAB SAMPLE NUMBER					0311830016SA			0311830017SA			0311830018SA			0311830001SA			0311830010SA			0311830011SA		
SAMPLE DEPTH (ft bgs)					0.0 – 0.5			1.5 – 3.5			4.0 – 6.0			8.0 – 10.0			0.0 – 0.5			1.5 – 3.5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																						
Aluminum	8,950	12,214	78,000	1,130,000	5,660	12.5		4,160	24.1		7,690	11.8		3,210	11.2		4,260	10.5		5,430	11.2	
Antimony	3.15	16	31.3	454	1.9	7.5	J	ND	14.4	U	ND		U	ND		U	ND	6.3	U	ND	6.7	U
Arsenic	3.6	4.3	3.9	17.7	3.2	0.62		2.3	0.6		2.4	0.59		1.1	0.56		2.4	0.52		2.9	0.56	
Barium	670	890	15,600	223,000	1,460	1.2	J	120	2.4	J	81.2	1.2	J	327	1.1	J	166	1	J	201	1.1	J
Beryllium	0.78	0.73	156	2,260	0.36	0.25		0.26	0.48	J	0.29	0.24		ND	0.22	U	0.22	0.21		0.27	0.22	
Cadmium	0.435	1.3	70.3	897	8.7	0.62		ND	1.2	U	ND		U	ND		U	0.85	0.52		0.63	0.56	
Calcium	44,800	237,498	NE	NE	6,270	25		205,000	48.1		22,900	23.6		60,300	22.4		48,600	20.9		94,400	22.3	
Chromium [e]	11	13	117,000	1,703,333	130	1.2		4.2	2.4		8.2	1.2		3.8	1.1		9.9	1	J	8	1.1	J
Cobalt [f]	6.6	4.7	23	300	3.4	1.2		2.3	2.4	J	4.4	1.2		1.7	1.1		2.6	1		3.2	1.1	
Copper	18.3	8.3	3,130	45,400	61.4	2.5		2.7	4.8	J	5.9	2.4		2.2	2.2		9.3	2.1		10.9	2.2	
Iron	10,100	13,148	54,800	795,000	7,150	12.5		3,290	24.1		8,140	11.8		3,320	11.2		5,570	10.5		6,420	11.2	
Lead	12	8.7	400	800	**930**	125		3.5	1.2		6.7	1.2		4.5	1.1		46.9	5.2		22.3	5.6	
Magnesium	1,930	19,300	NE	NE	1,150	25		2,450	48.1		2,000	23.6		2,200	22.4		1,810	20.9		2,210	22.3	
Manganese	307	333	1,860	26,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Mercury	0.056	0.019	15.6	73.6	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Nickel	11	15	1,560	22,500	7.2	5		4.9	9.6	J	7.4	4.7		3.6	4.5	J	5.8	4.2		6.9	4.5	
Potassium	2,691	2,512	NE	NE	867	625		666	1,200	J	1,450	590		892	560		1,100	523		954	558	
Selenium	0.26	1.1	391	5,680	ND	1.2	UJ	ND	1.2	UJ	ND	1.2	UJ	0.12	1.1	J	ND	1	UJ	ND	1.1	UJ
Silver	0.4	2.7	391	5,680	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Sodium	102	1,227	NE	NE	ND	625	U	ND	1,200	U	ND		U	ND		U	ND	523	U	ND	558	U
Thallium	0.6	2.65	0.782	11.4	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Vanadium	23	33	391	5,680	13.8	1.2		10.4	2.4		16.4	1.2		11.2	1.1		13.8	1		17.1	1.1	
Zinc	32	31	23,500	341,000	479	2.5		9.2	4.8		18.8	2.4		8	2.2	J	57	2.1		33.5	2.2	

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0312-0004			CAN031-0312-0008			CAN031-0313-0000			CAN031-0313-0002			CAN031-0313-0004			CAN031-0313-0008		
LAB SAMPLE NUMBER					0311830014SA			0311830015SA			0311830002SA			0311830003SA			0311830004SA			0311830005SA		
SAMPLE DEPTH (ft bgs)					4.0 – 6.0			8.0 – 10.0			0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																						
Aluminum	8,950	12,214	78,000	1,130,000	4,210	23.5		5,820	11.4		6,650	12.2		5,740	11.7		4,090	23.3		5,460	11.4	
Antimony	3.15	16	31.3	454	ND		U	ND		U	ND	7.3	U	ND	7	U	ND		U	ND		U
Arsenic	3.6	4.3	3.9	17.7	2.2	0.59		2.6	0.57		**4.4**	0.61		2.2	0.59		2.7	0.58		3	0.57	
Barium	670	890	15,600	223,000	273	2.4	J	237	1.1	J	229	1.2	J	119	1.2	J	130	2.3	J	411	1.1	J
Beryllium	0.78	0.73	156	2,260	ND	0.47	U	0.35	0.23		0.25	0.24		0.25	0.23		0.24	0.47	J	0.53	0.23	
Cadmium	0.435	1.3	70.3	897	ND		U	ND		U	4.4	0.61		ND	0.59	U						
Calcium	44,800	237,498	NE	NE	217,000	47		68,100	22.9		42,400	24.4		108,000	23.4		142,000	46.6		50,700	22.8	
Chromium [e]	11	13	117,000	1,703,333	6.5	2.4		6.1	1.1		24.3	1.2		6	1.2		4.9	2.3		6.1	1.1	
Cobalt [f]	6.6	4.7	23	300	2.4	2.4		3.1	1.1		3.5	1.2		3.2	1.2		2.5	2.3		3	1.1	
Copper	18.3	8.3	3,130	45,400	3.6	4.7	J	3.8	2.3		18.8	2.4		4.7	2.3		2.7	4.7	J	3.6	2.3	
Iron	10,100	13,148	54,800	795,000	3,930	23.5		5,900	11.4		7,950	12.2		5,470	11.7		4,050	23.3		5,580	11.4	
Lead	12	8.7	400	800	5.4	0.59		6.6	0.57		77.7	6.1		4.7	0.59		4	0.58		5.8	1.1	
Magnesium	1,930	19,300	NE	NE	3,250	47		3,970	22.9		2,310	24.4		1,940	23.4		2,500	46.6		2,960	22.8	
Manganese	307	333	1,860	26,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Mercury	0.056	0.019	15.6	73.6	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Nickel	11	15	1,560	22,500	5.7	9.4	J	6.3	4.6		6.8	4.9		5.7	4.7		5.9	9.3	J	6.5	4.6	
Potassium	2,691	2,512	NE	NE	688	1,180		1,090	572		1,550	610		998	586		762	1,170		1,140	570	
Selenium	0.26	1.1	391	5,680	ND	1.2	UJ	ND	1.1	UJ	0.24	1.2	J	ND	1.2	UJ	ND	4.2	UJ	ND	1.1	UJ
Silver	0.4	2.7	391	5,680	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Sodium	102	1,227	NE	NE							193	610	J	ND	586	U	ND		U	ND		U
Thallium	0.6	2.65	0.782	11.4	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Vanadium	23	33	391	5,680	14	2.4		23.4	1.1		16.6	1.2		13.1	1.2		15.4	2.3		22.6	1.1	
Zinc	32	31	23,500	341,000	9.6	4.7		12.9	2.3		85.8	2.4		12.6	2.3		9.8	4.7		12.1	2.3	

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0314-0000			CAN031-0314-0002			CAN031-0314-0004			CAN031-0314-0008			CAN031-3105-0000			CAN031-3105-0005		
LAB SAMPLE NUMBER					0311830006SA			0311830008SA			0311830009SA			0311830019SA			0397140012SA			0397140013SA		
SAMPLE DEPTH (ft bgs)					0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0			0			5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			12/8/1994			12/8/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																						
Aluminum	8,950	12,214	78,000	1,130,000	9,430	11.7		6,090	11.7	J	4,830	23.5		2,160	23.3		9,230	12		10,500	11.5	
Antimony	3.15	16	31.3	454	ND	7	U	ND	7	U	ND		U	ND		U	ND	7.2	UJ	ND	6.9	UJ
Arsenic	3.6	4.3	3.9	17.7	**4.6**	0.59		2.6	0.58		3.1	0.59		1.5	0.58		2.4	1.2		2.3	0.58	
Barium	670	890	15,600	223,000	104	1.2	J	107	1.2	J	1,130	2.4	J	143	2.3	J	237	1.2		657	1.2	
Beryllium	0.78	0.73	156	2,260	0.69	0.23		0.34	0.23		ND	0.47	U	ND	0.47	U	0.38	0.24		0.45	0.23	
Cadmium	0.435	1.3	70.3	897	ND	0.59	U	ND	0.58	U	ND		U	ND		U	1.2	0.6		ND	0.58	U
Calcium	44,800	237,498	NE	NE	4,200	23.5		71,300	23.3	J	156,000	47		222,000	46.5		44,600	24		105,000	23	
Chromium [e]	11	13	117,000	1,703,333	11.8	1.2		6.4	1.2		4.5	2.4		2.3	2.3		11.3	1.2		8.2	1.2	
Cobalt [f]	6.6	4.7	23	300	5.1	1.2		3.2	1.2		2.4	2.4		ND	2.3	U	2.9	1.2		2.1	1.2	
Copper	18.3	8.3	3,130	45,400	7.6	2.3		5.2	2.3	J	2.5	4.7	J	1.5	4.7	J	14.9	2.4		5.6	2.3	
Iron	10,100	13,148	54,800	795,000	10,700	11.7		6,030	11.7	J	4,570	23.5		1,680	23.3		8,700	12		7,590	11.5	
Lead	12	8.7	400	800	9.4	0.59		6.9	1.2	J	4.1	0.59		1.9	0.58		42.7	6	J	7	0.58	J
Magnesium	1,930	19,300	NE	NE	2,130	23.5		1,760	23.3		3,390	47		2,920	46.5		2,310	24		2,620	23	
Manganese	307	333	1,860	26,700	ND		U	ND		U	ND		U	ND		U	234	1.2	J	99.4	1.2	J
Mercury	0.056	0.019	15.6	73.6	ND		U	ND		U	ND		U	ND		U	ND	0.12	U	ND	0.12	U
Nickel	11	15	1,560	22,500	9.7	4.7		7	4.7		6.2	9.4	J	3.6	9.3	J	8.7	4.8		9.3	4.6	
Potassium	2,691	2,512	NE	NE	1,610	587		1,110	583	J	844	1,180	J	ND	1,160	U	1,460	600		1,740	576	
Selenium	0.26	1.1	391	5,680	0.15	1.2	J	0.16	1.2	J	ND	1.2	UJ	ND	1.2	UJ	ND	1.2	UJ	ND	2.3	UJ
Silver	0.4	2.7	391	5,680	ND		U	ND		U	ND		U	ND		U	ND	1.2	U	ND	1.2	U
Sodium	102	1,227	NE	NE	ND	587	U	ND	583	U	ND		U	ND		U	ND	600	U	ND	576	U
Thallium	0.6	2.65	0.782	11.4	ND		U	ND		U	ND		U	ND		U	ND	1.2	UJ	0.13	1.2	J
Vanadium	23	33	391	5,680	21.2	1.2		13.3	1.2		18.7	2.4		6	2.3		17.3	1.2		15.1	1.2	
Zinc	32	31	23,500	341,000	29.8	2.3		13.2	2.3		11.9	4.7		5.6	4.7		114	2.4		21.1	2.3	

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3105-0010			CAN031-3106-0000			CAN031-3106-0005			CAN031-3106-0010			CAN031-3107-0000		
LAB SAMPLE NUMBER					0397140014SA			0397140015SA			0397140016SA			0397140017SA			0398710006SA		
SAMPLE DEPTH (ft bgs)					10			0			5			10			0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/8/1994			12/8/1994			12/8/1994			12/8/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																			
Aluminum	8,950	12,214	78,000	1,130,000	8,700	23.2		10,200	11		3,970	60.3		10,200	11.4		7,550	22.5	
Antimony	3.15	16	31.3	454	ND	13.9	UJ	ND	6.6	UJ	ND	36.2	UJ	ND	6.8	UJ	ND	13.5	U
Arsenic	3.6	4.3	3.9	17.7	2	0.58		3.1	0.55		2.4	0.6		2.5	0.57		3.7	0.56	
Barium	670	890	15,600	223,000	275	2.3		305	1.1		270	6		101	1.1		716	2.2	
Beryllium	0.78	0.73	156	2,260	0.4	0.46	J	0.42	0.22		ND	1.2	U	0.47	0.23		0.46	0.45	
Cadmium	0.435	1.3	70.3	897	ND	1.2	U	3.3	0.55		ND	3	U	ND	0.57	U	1.9	1.1	
Calcium	44,800	237,498	NE	NE	124,000	46.3		46,600	21.9		288,000	121		96,600	22.8		173,000	45	
Chromium [e]	11	13	117,000	1,703,333	5.8	2.3		26.5	1.1		ND	6	U	7.7	1.1		25.6	2.2	
Cobalt [f]	6.6	4.7	23	300	2.2	2.3	J	3.1	1.1		ND	6	U	2.5	1.1		22.2	2.2	
Copper	18.3	8.3	3,130	45,400	4	4.6	J	15.5	2.2		3.9	12.1	J	4.5	2.3		22.5	4.5	
Iron	10,100	13,148	54,800	795,000	6,370	23.2		10,600	11		3,620	60.3		8,050	11.4		8,990	22.5	
Lead	12	8.7	400	800	5.1	1.2	J	138	11		3.1	1.2	J	5.8	1.1		20.7	2.8	J
Magnesium	1,930	19,300	NE	NE	2,910	46.3		2,460	21.9		3,270	121		4,330	22.8		5,230	45	
Manganese	307	333	1,860	26,700	73.2	2.3	J	187	1.1	J	40.7	6	J	112	1.1	J	280	2.2	
Mercury	0.056	0.019	15.6	73.6	ND	0.12	U	ND	0.11	U	ND	0.12	U	ND	0.11	U	ND	0.11	U
Nickel	11	15	1,560	22,500	8.6	9.3	J	10.1	4.4		8.8	24.1	J	9	4.6		15.8	9	
Potassium	2,691	2,512	NE	NE	1,430	1,160		2,200	548		639	3,010	J	1,830	571		994	1,120	J
Selenium	0.26	1.1	391	5,680	ND	1.2	UJ	ND	1.1	UJ	ND	2.4	UJ	ND	1.1	U	ND	5.6	UJ
Silver	0.4	2.7	391	5,680	ND	2.3	U	ND	1.1	U	ND	6	U	ND	1.1	U	ND	2.2	U
Sodium	102	1,227	NE	NE	ND	1,160	U	ND	548	U	ND	3,010	U	ND	571	U	ND	1,120	U
Thallium	0.6	2.65	0.782	11.4	0.12	1.2	J	ND	1.1	UJ	ND	1.2	UJ	ND	1.1	UJ	ND	2.2	UJ
Vanadium	23	33	391	5,680	15.4	2.3		19.9	1.1		12.2	6		23.7	1.1		21	2.2	
Zinc	32	31	23,500	341,000	16.4	4.6		139	2.2		8.5	12.1	J	20.6	2.3		44.7	4.5	

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3107-0005			CAN031-3107-0010			CAN031-3107-6005		
LAB SAMPLE NUMBER					0398710002SA			0398710004SA			0398710010SA		
SAMPLE DEPTH (ft bgs)					5			10			5.0 (Duplicate)		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/13/1994			12/13/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)													
Aluminum	8,950	12,214	78,000	1,130,000	7,550	23		4,160	58.9		7,050	23	
Antimony	3.15	16	31.3	454	ND	13.8	UJ	ND	35.3	UJ	ND	13.8	UJ
Arsenic	3.6	4.3	3.9	17.7	3	0.57		1	0.59		2.8	0.57	
Barium	670	890	15,600	223,000	267	2.3	J	344	5.9	J	208	2.3	J
Beryllium	0.78	0.73	156	2,260	0.43	0.46	J	ND	1.2	U	0.45	0.46	J
Cadmium	0.435	1.3	70.3	897	1	1.1	J	ND	2.9	U	5.2	1.1	
Calcium	44,800	237,498	NE	NE	120,000	45.9		289,000	118		133,000	46	
Chromium [e]	11	13	117,000	1,703,333	5.6	2.3		ND	5.9	U	4.9	2.3	
Cobalt [f]	6.6	4.7	23	300	2.8	2.3		2.6	5.9	J	2.6	2.3	
Copper	18.3	8.3	3,130	45,400	4.9	4.6		ND	11.8	U	5.2	4.6	
Iron	10,100	13,148	54,800	795,000	6,410	23		2,930	58.9		6,120	23	
Lead	12	8.7	400	800	4.7	0.57	J	3.3	0.59	J	4.8	0.57	J
Magnesium	1,930	19,300	NE	NE	3,050	45.9		4,820	118		3,070	46	
Manganese	307	333	1,860	26,700	86.5	2.3		81.6	5.9		89	2.3	
Mercury	0.056	0.019	15.6	73.6	ND	0.11	U	ND	0.12	U	ND	0.11	U
Nickel	11	15	1,560	22,500	7.5	9.2	J	7.4	23.6	J	8.8	9.2	J
Potassium	2,691	2,512	NE	NE	1,180	1,150		706	2,940	J	1,180	1,150	
Selenium	0.26	1.1	391	5,680	ND	2.3	UJ	ND	1.2	U	ND	5.7	UJ
Silver	0.4	2.7	391	5,680	ND	2.3	U	ND	5.9	U	ND	2.3	U
Sodium	102	1,227	NE	NE	ND	1,150	U	ND	2,940	U	ND	1,150	U
Thallium	0.6	2.65	0.782	11.4	ND	1.1	UJ	ND	1.2	UJ	ND	1.1	UJ
Vanadium	23	33	391	5,680	18	2.3		10	5.9		18.8	2.3	
Zinc	32	31	23,500	341,000	18.7	4.6		8.2	11.8	J	20.8	4.6	

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0311-0000			CAN031-0311-0002			CAN031-0311-0004			CAN031-0311-0008			CAN031-0312-0000			CAN031-0312-0002		
LAB SAMPLE NUMBER					0311830016SA			0311830017SA			0311830018SA			0311830001SA			0311830010SA			0311830011SA		
SAMPLE DEPTH (ft bgs)					0.0 – 0.5			1.5 – 3.5			4.0 – 6.0			8.0 – 10.0			0.0 – 0.5			1.5 – 3.5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																						
Acetone	NE	NE	66,600	868,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzene	NE	NE	15.4	84.7	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Bromodichloromethane	NE	NE	5.41	30.1	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Bromoform	NE	NE	616	2,420	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Bromomethane	NE	NE	16.5	86.5	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Carbon disulfide	NE	NE	1,530	8,330	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Carbon tetrachloride	NE	NE	10.8	59.8	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chlorobenzene	NE	NE	376	2,120	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chloroethane	NE	NE	29,800	141,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chloroform	NE	NE	5.86	32.7	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chloromethane	NE	NE	275	1,290	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dibromochloromethane	NE	NE	12.1	62.4	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1-Dichloroethane	NE	NE	64.5	359	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1-Dichloroethene	NE	NE	449	2,290	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichloroethene (total)[f]	NE	NE	700	9,200	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Ethylbenzene	NE	NE	68.4	378	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Hexanone	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Methyl-2-pentanone	NE	NE	5,820	73,800	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Methylene chloride	NE	NE	409	4,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Styrene	NE	NE	7,280	50,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.01	U	ND	0.0058	U	ND	0.01	U	ND	0.01	U	ND	0.01	U	ND	0.0056	U
Toluene	NE	NE	5,270	57,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Trichloroethene	NE	NE	8.77	41.3	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Vinyl acetate	NE	NE	2,560	12,300	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Vinyl chloride	NE	NE	0.728	26.1	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Xylenes (total)	NE	NE	814	3,980	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0312-0004			CAN031-0312-0008			CAN031-0313-0000			CAN031-0313-0002			CAN031-0313-0004			CAN031-0313-0008		
LAB SAMPLE NUMBER					0311830014SA			0311830015SA			0311830002SA			0311830003SA			0311830004SA			0311830005SA		
SAMPLE DEPTH (ft bgs)					4.0 – 6.0			8.0 – 10.0			0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																						
Acetone	NE	NE	66,600	868,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzene	NE	NE	15.4	84.7	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Bromodichloromethane	NE	NE	5.41	30.1	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Bromoform	NE	NE	616	2,420	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Bromomethane	NE	NE	16.5	86.5	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Carbon disulfide	NE	NE	1,530	8,330	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Carbon tetrachloride	NE	NE	10.8	59.8	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chlorobenzene	NE	NE	376	2,120	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chloroethane	NE	NE	29,800	141,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chloroform	NE	NE	5.86	32.7	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chloromethane	NE	NE	275	1,290	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dibromochloromethane	NE	NE	12.1	62.4	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1-Dichloroethane	NE	NE	64.5	359	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1-Dichloroethene	NE	NE	449	2,290	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichloroethene (total)[f]	NE	NE	700	9,200	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Ethylbenzene	NE	NE	68.4	378	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Hexanone	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Methyl-2-pentanone	NE	NE	5,820	73,800	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Methylene chloride	NE	NE	409	4,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Styrene	NE	NE	7,280	50,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.006	U	ND	0.01	U	0.0036	0.0061		ND	0.01	U	ND	0.006	U	ND	0.01	U
Toluene	NE	NE	5,270	57,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Trichloroethene	NE	NE	8.77	41.3	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Vinyl acetate	NE	NE	2,560	12,300	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Vinyl chloride	NE	NE	0.728	26.1	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Xylenes (total)	NE	NE	814	3,980	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0314-0000			CAN031-0314-0002			CAN031-0314-0004			CAN031-0314-0008			CAN031-3105-0000			CAN031-3105-0005		
LAB SAMPLE NUMBER					0311830006SA			0311830008SA			0311830009SA			0311830019SA			0397140012SA			0397140013SA		
SAMPLE DEPTH (ft bgs)					0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0			0			5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			12/8/1994			12/8/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																						
Acetone	NE	NE	66,600	868,000	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
Benzene	NE	NE	15.4	84.7	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Bromodichloromethane	NE	NE	5.41	30.1	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Bromoform	NE	NE	616	2,420	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Bromomethane	NE	NE	16.5	86.5	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
Carbon disulfide	NE	NE	1,530	8,330	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Chlorobenzene	NE	NE	376	2,120	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Chloroethane	NE	NE	29,800	141,000	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
Chloroform	NE	NE	5.86	32.7	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Chloromethane	NE	NE	275	1,290	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
Dibromochloromethane	NE	NE	12.1	62.4	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,1-Dichloroethane	NE	NE	64.5	359	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,1-Dichloroethene	NE	NE	449	2,290	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,2-Dichloroethene (total)[f]	NE	NE	700	9,200	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Ethylbenzene	NE	NE	68.4	378	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
2-Hexanone	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
4-Methyl-2-pentanone	NE	NE	5,820	73,800	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
Methylene chloride	NE	NE	409	4,700	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Styrene	NE	NE	7,280	50,000	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.01	U	ND	0.0058	U	ND	0.006	U	ND	0.006	U	ND	0.006	U	ND	0.0058	U
Toluene	NE	NE	5,270	57,700	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Trichloroethene	NE	NE	8.77	41.3	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U
Vinyl acetate	NE	NE	2,560	12,300	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
Vinyl chloride	NE	NE	0.728	26.1	ND		U	ND		U	ND		U	ND		U	ND	0.012	U	ND	0.012	U
Xylenes (total)	NE	NE	814	3,980	ND		U	ND		U	ND		U	ND		U	ND	0.006	U	ND	0.0058	U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3105-0010			CAN031-3106-0000			CAN031-3106-0005			CAN031-3106-0010			CAN031-3107-0000		
LAB SAMPLE NUMBER					0397140014SA			0397140015SA			0397140016SA			0397140017SA			0398710006SA		
SAMPLE DEPTH (ft bgs)					10			0			5			10			0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/8/1994			12/8/1994			12/8/1994			12/8/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																			
Acetone	NE	NE	66,600	868,000	ND	0.012	U	ND	0.011	U	0.0026	0.012	J	ND	0.011	U	0.21	0.11	
Benzene	NE	NE	15.4	84.7	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Bromoform	NE	NE	616	2,420	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Bromomethane	NE	NE	16.5	86.5	ND	0.012	U	ND	0.011	U	ND	0.012	U	ND	0.011	U	ND	0.11	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.012	U	ND	0.011	U	ND	0.012	U	ND	0.011	U	ND	0.11	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0058	U	ND	0.0055	U	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Chloroethane	NE	NE	29,800	141,000	ND	0.012	U	ND	0.011	U	ND	0.012	U	ND	0.011	U	ND	0.11	U
Chloroform	NE	NE	5.86	32.7	ND	0.0058	U	ND	0.0055	U	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Chloromethane	NE	NE	275	1,290	ND	0.012	U	ND	0.011	U	ND	0.012	U	ND	0.011	U	ND	0.11	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0058	U	ND	0.0055	U	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0058	U	ND	0.0055	U	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0058	U	ND	0.0055	U	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,2-Dichloroethene (total)[f]	NE	NE	700	9,200	ND	0.0058	U	ND	0.0055	U	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
2-Hexanone	NE	NE	NE	NE	ND	0.012	U	ND	0.011	UJ	ND	0.012	U	ND	0.011	U	ND	0.11	U
4-Methyl-2-pentanone	NE	NE	5,820	73,800	ND	0.012	U	ND	0.011	UJ	ND	0.012	U	ND	0.011	U	ND	0.11	U
Methylene chloride	NE	NE	409	4,700	ND	0.0058	U	ND	0.0055	U	ND	0.0063	U	ND	0.0057	U	ND	0.056	U
Styrene	NE	NE	7,280	50,000	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Toluene	NE	NE	5,270	57,700	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	ND	0.056	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.012	U	ND	0.011	UJ	ND	0.012	U	ND	0.011	U	ND	0.11	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.012	U	ND	0.011	U	ND	0.012	U	ND	0.011	U	ND	0.11	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0058	U	ND	0.0055	UJ	ND	0.006	U	ND	0.0057	U	0.13	0.056	

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3107-0005			CAN031-3107-0010			CAN031-3107-6005		
LAB SAMPLE NUMBER					0398710002SA			0398710004SA			0398710010SA		
SAMPLE DEPTH (ft bgs)					5			10			5.0 (Duplicate)		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/13/1994			12/13/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Acetone	NE	NE	66,600	868,000	0.0063	0.011	J	0.012	0.012		0.014	0.011	
Benzene	NE	NE	15.4	84.7	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Bromodichloromethane	NE	NE	5.41	30.1	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Bromoform	NE	NE	616	2,420	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Bromomethane	NE	NE	16.5	86.5	ND	0.011	U	ND	0.012	U	ND	0.011	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	0.011	U	ND	0.012	U	ND	0.011	U
Carbon disulfide	NE	NE	1,530	8,330	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Carbon tetrachloride	NE	NE	10.8	59.8	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Chlorobenzene	NE	NE	376	2,120	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Chloroethane	NE	NE	29,800	141,000	ND	0.011	U	ND	0.012	U	ND	0.011	U
Chloroform	NE	NE	5.86	32.7	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Chloromethane	NE	NE	275	1,290	ND	0.011	U	ND	0.012	U	ND	0.011	U
Dibromochloromethane	NE	NE	12.1	62.4	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
1,1-Dichloroethane	NE	NE	64.5	359	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
1,2-Dichloroethane	NE	NE	7.89	43.5	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
1,1-Dichloroethene	NE	NE	449	2,290	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
1,2-Dichloroethene (total)[f]	NE	NE	700	9,200	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
1,2-Dichloropropane	NE	NE	15.2	84.4	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
cis-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
trans-1,3-Dichloropropene	NE	NE	NE	NE	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Ethylbenzene	NE	NE	68.4	378	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
2-Hexanone	NE	NE	NE	NE	ND	0.011	U	ND	0.012	U	ND	0.011	U
4-Methyl-2-pentanone	NE	NE	5,820	73,800	ND	0.011	U	ND	0.012	U	ND	0.011	U
Methylene chloride	NE	NE	409	4,700	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Styrene	NE	NE	7,280	50,000	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
1,1,2,2-Tetrachloroethane	NE	NE	8.02	43.5	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Tetrachloroethene	NE	NE	7.02	36.6	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Toluene	NE	NE	5,270	57,700	0.0055	0.0057	J	0.0049	0.0059	J	ND	0.0057	U
1,1,1-Trichloroethane	NE	NE	15,600	78,900	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Trichloroethene	NE	NE	8.77	41.3	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U
Vinyl acetate	NE	NE	2,560	12,300	ND	0.011	U	ND	0.012	U	ND	0.011	U
Vinyl chloride	NE	NE	0.728	26.1	ND	0.011	U	ND	0.012	U	ND	0.011	U
Xylenes (total)	NE	NE	814	3,980	ND	0.0057	U	ND	0.0059	U	ND	0.0057	U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0311-0000			CAN031-0311-0002			CAN031-0311-0004			CAN031-0311-0008			CAN031-0312-0000			CAN031-0312-0002		
LAB SAMPLE NUMBER					0311830016SA			0311830017SA			0311830018SA			0311830001SA			0311830010SA			0311830011SA		
SAMPLE DEPTH (ft bgs)					0.0 – 0.5			1.5 – 3.5			4.0 – 6.0			8.0 – 10.0			0.0 – 0.5			1.5 – 3.5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																						
Anthracene	NE	NE	17,200	183,000	0.6	4.1	J	ND		U	ND		U	ND		U	ND		U	ND	0.37	U
Acenaphthylene[f]	NE	NE	3,400	33,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Antracene	NE	NE	17,200	183,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzo(a)anthracene	NE	NE	1.48	23.4	**2.4**	4.1	J	ND		U	ND		U	ND		U	ND		U	ND	0.37	U
Benzo(a)pyrene	NE	NE	0.148	2.34	**2.7**	4.1	J	ND		U	ND		U	ND		U	ND		U	ND	0.37	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	**5.6**	4.1		ND		U	ND		U	ND		U	ND		U	0.065	0.37	J
Benzo(g,h,i)perylene	NE	NE	NE	NE	2.6	4.1	J	ND		U	ND		U	ND		U	ND		U	ND	0.37	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzoic acid[f]	NE	NE	240,000	2,500,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzyl alcohol[f]	NE	NE	6,100	62,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Chloroethoxy) methane[f]	NE	NE	180	1,800	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.2	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Butyl benzyl phthalate[f]	NE	NE	260	910	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Carbazole	NE	NE	NE	NE	0.5	4.1	J	ND		U	ND		U	ND		U	ND		U	ND	0.37	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Chloroaniline[f]	NE	NE	2.4	8.6	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Chlorophenol	NE	NE	391	5,680	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chrysene	NE	NE	148	2,340	3.1	4.1	J	ND		U	ND		U	ND		U	ND		U	ND	0.37	U
Di-n-butyl phthalate	NE	NE	6,110	68,400	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Di-n-octyl phthalate	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dibenzofuran[f]	NE	NE	78	1,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,4-Dichlorobenzene	NE	NE	31.7	177	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dichlorophenol	NE	NE	183	2,050	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
3-3'-Dichlorobenzidine	NE	NE	10.8	42.6	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Diethyl phthalate	NE	NE	48,900	547,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dimethyl phthalate	NE	NE	611,000	6,840,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dinitrophenol	NE	NE	122	1,370	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0312-0004			CAN031-0312-0008			CAN031-0313-0000			CAN031-0313-0002			CAN031-0313-0004			CAN031-0313-0008		
LAB SAMPLE NUMBER					0311830014SA			0311830015SA			0311830002SA			0311830003SA			0311830004SA			0311830005SA		
SAMPLE DEPTH (ft bgs)					4.0 – 6.0			8.0 – 10.0			0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																						
Anthracene	NE	NE	17,200	183,000	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Acenaphthylene[f]	NE	NE	3,400	33,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Antracene	NE	NE	17,200	183,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzoic acid[f]	NE	NE	240,000	2,500,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Benzyl alcohol[f]	NE	NE	6,100	62,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Chloroethoxy) methane[f]	NE	NE	180	1,800	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.2	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Butyl benzyl phthalate[f]	NE	NE	260	910	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Carbazole	NE	NE	NE	NE	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Chloroaniline[f]	NE	NE	2.4	8.6	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Chlorophenol	NE	NE	391	5,680	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Chrysene	NE	NE	148	2,340	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Di-n-butyl phthalate	NE	NE	6,110	68,400	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Di-n-octyl phthalate	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dibenzofuran[f]	NE	NE	78	1,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
1,4-Dichlorobenzene	NE	NE	31.7	177	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dichlorophenol	NE	NE	183	2,050	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
3-3'-Dichlorobenzidine	NE	NE	10.8	42.6	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Diethyl phthalate	NE	NE	48,900	547,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Dimethyl phthalate	NE	NE	611,000	6,840,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dinitrophenol	NE	NE	122	1,370	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0314-0000			CAN031-0314-0002			CAN031-0314-0004			CAN031-0314-0008			CAN031-3105-0000			CAN031-3105-0005		
LAB SAMPLE NUMBER					0311830006SA			0311830008SA			0311830009SA			0311830019SA			0397140012SA			0397140013SA		
SAMPLE DEPTH (ft bgs)					0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0			0			5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			12/8/1994			12/8/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																						
Anthracene	NE	NE	17,200	183,000	ND		U	ND	0.38	U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Acenaphthylene[f]	NE	NE	3,400	33,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Antracene	NE	NE	17,200	183,000	ND		U	ND		U	ND		U	ND		U	0.08	0.4	J	ND	0.38	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND		U	ND	0.38	U	ND		U	ND		U	0.49	0.4		ND	0.38	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND		U	ND	0.38	U	ND		U	ND		U	**0.6**	0.4		ND	0.38	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND		U	ND	0.38	U	ND		U	ND		U	1.1	0.4		ND	0.38	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND		U	ND	0.38	U	ND		U	ND		U	0.31	0.4	J	ND	0.38	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND		U	ND		U	ND		U	ND		U	1.3	0.4		ND	0.38	U
Benzoic acid[f]	NE	NE	240,000	2,500,000	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
Benzyl alcohol[f]	NE	NE	6,100	62,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
bis(2-Chloroethoxy) methane[f]	NE	NE	180	1,800	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.2	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND		U	ND		U	ND		U	ND		U	0.34	0.4	J	ND	0.38	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Butyl benzyl phthalate[f]	NE	NE	260	910	ND		U	ND		U	ND		U	ND		U	0.065	0.4	J	ND	0.38	U
Carbazole	NE	NE	NE	NE	ND		U	ND	0.38	U	ND		U	ND		U	0.17	0.4	J	ND	0.38	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
4-Chloroaniline[f]	NE	NE	2.4	8.6	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2-Chlorophenol	NE	NE	391	5,680	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Chrysene	NE	NE	148	2,340	ND		U	ND	0.38	U	ND		U	ND		U	0.79	0.4		ND	0.38	U
Di-n-butyl phthalate	NE	NE	6,110	68,400	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND		U	ND		U	ND		U	ND		U	0.14	0.4	J	ND	0.38	U
Dibenzofuran[f]	NE	NE	78	1,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
1,4-Dichlorobenzene	NE	NE	31.7	177	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
3-3'-Dichlorobenzidine	NE	NE	10.8	42.6	ND		U	ND		U	ND		U	ND		U	ND	0.79	U	ND	0.76	U
Diethyl phthalate	NE	NE	48,900	547,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Dimethyl phthalate	NE	NE	611,000	6,840,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3105-0010			CAN031-3106-0000			CAN031-3106-0005			CAN031-3106-0010			CAN031-3107-0000		
LAB SAMPLE NUMBER					0397140014SA			0397140015SA			0397140016SA			0397140017SA			0398710006SA		
SAMPLE DEPTH (ft bgs)					10			0			5			10			0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/8/1994			12/8/1994			12/8/1994			12/8/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																			
Anthracene	NE	NE	17,200	183,000	ND	0.38	U	0.089	0.36	J	ND	0.4	U	ND	0.38	U	ND	3.7	U
Acenaphthylene[f]	NE	NE	3,400	33,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Antracene	NE	NE	17,200	183,000	ND	0.38	U	0.37	0.36		ND	0.4	U	ND	0.38	U	0.82	3.7	J
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.38	U	**1.6**	0.36		ND	0.4	U	ND	0.38	U	**1.8**	3.7	J
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.38	U	**1.9**	0.36		ND	0.4	U	ND	0.38	U	**1.7**	3.7	J
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	1.2	3.7	J
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.38	U	0.87	0.36		ND	0.4	U	ND	0.38	U	1.1	3.7	J
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.38	U	3.8	0.36		ND	0.4	U	ND	0.38	U	1.8	3.7	J
Benzoic acid[f]	NE	NE	240,000	2,500,000	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
Benzyl alcohol[f]	NE	NE	6,100	62,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
bis(2-Chloroethoxy) methane[f]	NE	NE	180	1,800	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.2	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.38	U	1.2	0.36		ND	0.4	U	ND	0.38	U	2.5	3.7	J
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Butyl benzyl phthalate[f]	NE	NE	260	910	ND	0.38	U	0.073	0.36	J	ND	0.4	U	ND	0.38	U	ND	3.7	U
Carbazole	NE	NE	NE	NE	ND	0.38	U	0.37	0.36		ND	0.4	U	ND	0.38	U	ND	3.7	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
4-Chloroaniline[f]	NE	NE	2.4	8.6	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Chrysene	NE	NE	148	2,340	ND	0.38	U	0.27	0.36	J	ND	0.4	U	ND	0.38	U	2	3.7	J
Di-n-butyl phthalate	NE	NE	6,110	68,400	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.38	U	**0.4**	0.36		ND	0.4	U	ND	0.38	U	**0.63**	3.7	J
Dibenzofuran[f]	NE	NE	78	1,000	ND	0.38	U	0.049	0.36	J	ND	0.4	U	ND	0.38	U	ND	3.7	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
1,4-Dichlorobenzene	NE	NE	31.7	177	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
3-3'-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.76	U	ND	0.72	U	ND	0.8	U	ND	0.75	U	ND	7.4	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Dimethyl phthalate	NE	NE	611,000	6,840,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3107-0005			CAN031-3107-0010			CAN031-3107-6005		
LAB SAMPLE NUMBER					0398710002SA			0398710004SA			0398710010SA		
SAMPLE DEPTH (ft bgs)					5			10			5.0 (Duplicate)		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/13/1994			12/13/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Anthracene	NE	NE	17,200	183,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
Acenaphthylene[f]	NE	NE	3,400	33,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
Antracene	NE	NE	17,200	183,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
Benzo(a)anthracene	NE	NE	1.48	23.4	ND	0.38	U	ND	0.39	U	ND	0.38	U
Benzo(a)pyrene	NE	NE	0.148	2.34	ND	0.38	U	ND	0.39	U	ND	0.38	U
Benzo(b)fluoranthene	NE	NE	1.48	23.4	ND	0.38	U	ND	0.39	U	ND	0.38	U
Benzo(g,h,i)perylene	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.38	U	ND	0.39	U	ND	0.38	U
Benzoic acid[f]	NE	NE	240,000	2,500,000	ND	1.8	U	ND	1	U	ND	1.8	U
Benzyl alcohol[f]	NE	NE	6,100	62,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
bis(2-Chloroethoxy) methane[f]	NE	NE	180	1,800	ND	0.38	U	ND	0.39	U	ND	0.38	U
bis(2-Chloroethyl) ether	NE	NE	2.68	14.2	ND	0.38	U	ND	0.39	U	ND	0.38	U
bis(2-Chloroisopropyl) ether	NE	NE	91.5	454	ND	0.38	U	ND	0.39	U	ND	0.38	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	0.38	U	ND	0.39	U	ND	0.38	U
4-Bromophenyl phenyl ether	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
Butyl benzyl phthalate[f]	NE	NE	260	910	ND	0.38	U	ND	0.39	U	ND	0.38	U
Carbazole	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
4-Chloro-3-methylphenol	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
4-Chloroaniline[f]	NE	NE	2.4	8.6	ND	0.38	U	ND	0.39	U	ND	0.38	U
2-Chloronaphthalene	NE	NE	6,260	90,800	ND	0.38	U	ND	0.39	U	ND	0.38	U
2-Chlorophenol	NE	NE	391	5,680	ND	0.38	U	ND	0.39	U	ND	0.38	U
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
Chrysene	NE	NE	148	2,340	ND	0.38	U	ND	0.39	U	ND	0.38	U
Di-n-butyl phthalate	NE	NE	6,110	68,400	ND	0.38	U	ND	0.39	U	ND	0.38	U
Di-n-octyl phthalate	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.38	U	ND	0.39	U	ND	0.38	U
Dibenzofuran[f]	NE	NE	78	1,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
1,2-Dichlorobenzene	NE	NE	2,310	14,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
1,3-Dichlorobenzene	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
1,4-Dichlorobenzene	NE	NE	31.7	177	ND	0.38	U	ND	0.39	U	ND	0.38	U
2,4-Dichlorophenol	NE	NE	183	2,050	ND	0.38	U	ND	0.39	U	ND	0.38	U
3-3'-Dichlorobenzidine	NE	NE	10.8	42.6	ND	0.76	U	ND	0.78	U	ND	0.76	U
Diethyl phthalate	NE	NE	48,900	547,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
2,4-Dimethylphenol	NE	NE	1,220	13,700	ND	0.38	U	ND	0.39	U	ND	0.38	U
Dimethyl phthalate	NE	NE	611,000	6,840,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	ND	1.8	U	ND	1.9	U	ND	1.8	U
2,4-Dinitrophenol	NE	NE	122	1,370	ND	1.8	U	ND	1.9	U	ND	1.8	U
2,4-Dinitrotoluene	NE	NE	15.7	61.8	ND	0.38	U	ND	0.39	U	ND	0.38	U
2,6-Dinitrotoluene	NE	NE	61.1	684	ND	0.38	U	ND	0.39	U	ND	0.38	U

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0311-0000			CAN031-0311-0002			CAN031-0311-0004			CAN031-0311-0008			CAN031-0312-0000			CAN031-0312-0002		
LAB SAMPLE NUMBER					0311830016SA			0311830017SA			0311830018SA			0311830001SA			0311830010SA			0311830011SA		
SAMPLE DEPTH (ft bgs)					0.0 – 0.5			1.5 – 3.5			4.0 – 6.0			8.0 – 10.0			0.0 – 0.5			1.5 – 3.5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Fluoroanthene	NE	NE	2,290	24,400	5.6	4.1		ND		U	ND		U	ND		U	ND		U	0.055	0.37	J
Fluorene	NE	NE	2,290	24,400	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachlorobenzene	NE	NE	3.04	12	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachlorobutadiene	NE	NE	61.1	246	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachloroethane	NE	NE	42.8	479	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	**2.3**	4.1	J	ND		U	ND		U	ND		U	ND		U	ND	0.37	U
Isophorone	NE	NE	5,120	137,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Methylnaphthalene[f]	NE	NE	230	2,300	ND	4.1	UJ	ND		U	ND		U	ND		U	ND		U	0.045	0.37	J
2-Methylphenol[f]	NE	NE	3,100	31,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Methylphenol[f]	NE	NE	6,100	62,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Naphthalene	NE	NE	43	241	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Nitroaniline[f]	NE	NE	610	6,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
3-Nitroaniline	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Nitroaniline[f]	NE	NE	24	86	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Nitrobenzene	NE	NE	53.5	300	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Nitrophenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Nitrophenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
N-Nitroso-di-n-propylamine[f]	NE	NE	0.069	0.25	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Pentachlorophenol	NE	NE	8.94	30	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Phenanthrene	NE	NE	1,830	20,500	3.2	4.1	J	ND		U	ND		U	ND		U	ND		U	0.044	0.37	J
Phenol	NE	NE	18,300	205,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Pyrene	NE	NE	1,720	18,300	4.6	4.1		ND		U	ND		U	ND		U	ND		U	0.044	0.37	J
1,2,4-Trichlorobenzene	NE	NE	73	367	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4,6-Trichlorophenol	NE	NE	61.1	684	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Total Petroleum Hydrocarbons (mg/kg)																						
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	**3,180**	500		ND	48.1	U	ND		U	ND		U	973	209		81	44.6	

Refer to footnotes at the end of the table.

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0312-0004			CAN031-0312-0008			CAN031-0313-0000			CAN031-0313-0002			CAN031-0313-0004			CAN031-0313-0008		
LAB SAMPLE NUMBER					0311830014SA			0311830015SA			0311830002SA			0311830003SA			0311830004SA			0311830005SA		
SAMPLE DEPTH (ft bgs)					4.0 – 6.0			8.0 – 10.0			0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993			9/12/1993		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Fluoroanthene	NE	NE	2,290	24,400	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Fluorene	NE	NE	2,290	24,400	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachlorobenzene	NE	NE	3.04	12	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachlorobutadiene	NE	NE	61.1	246	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Hexachloroethane	NE	NE	42.8	479	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Isophorone	NE	NE	5,120	137,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Methylnaphthalene[f]	NE	NE	230	2,300	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
2-Methylphenol[f]	NE	NE	3,100	31,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Methylphenol[f]	NE	NE	6,100	62,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Naphthalene	NE	NE	43	241	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Nitroaniline[f]	NE	NE	610	6,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
3-Nitroaniline	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Nitroaniline[f]	NE	NE	24	86	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Nitrobenzene	NE	NE	53.5	300	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2-Nitrophenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
4-Nitrophenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
N-Nitroso-di-n-propylamine[f]	NE	NE	0.069	0.25	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Pentachlorophenol	NE	NE	8.94	30	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Phenanthrene	NE	NE	1,830	20,500	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
Phenol	NE	NE	18,300	205,000	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Pyrene	NE	NE	1,720	18,300	ND		U	ND		U	ND	8	U	ND	0.39	U	ND		U	ND		U
1,2,4-Trichlorobenzene	NE	NE	73	367	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
2,4,6-Trichlorophenol	NE	NE	61.1	684	ND		U	ND		U	ND		U	ND		U	ND		U	ND		U
Total Petroleum Hydrocarbons (mg/kg)																						
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	ND		U	ND		U	**4070**	488		ND	46.9	U	ND		U	ND		U

Refer to footnotes at the end of the table.

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-0314-0000			CAN031-0314-0002			CAN031-0314-0004			CAN031-0314-0008			CAN031-3105-0000			CAN031-3105-0005		
LAB SAMPLE NUMBER					0311830006SA			0311830008SA			0311830009SA			0311830019SA			0397140012SA			0397140013SA		
SAMPLE DEPTH (ft bgs)					0.5 – 2.0			2.0 – 4.0			4.0 – 6.0			8.0 – 10.0			0			5		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	9/12/1993			9/12/1993			9/12/1993			9/12/1993			12/8/1994			12/8/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Fluoroanthene	NE	NE	2,290	24,400	ND		U	ND	0.38	U	ND		U	ND		U	1.3	0.4		ND	0.38	U
Fluorene	NE	NE	2,290	24,400	ND		U	ND		U	ND		U	ND		U	0.047	0.4	J	ND	0.38	U
Hexachlorobenzene	NE	NE	3.04	12	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Hexachlorobutadiene	NE	NE	61.1	246	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Hexachloroethane	NE	NE	42.8	479	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND		U	ND	0.38	U	ND		U	ND		U	0.33	0.4	J	ND	0.38	U
Isophorone	NE	NE	5,120	137,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2-Methylnaphthalene[f]	NE	NE	230	2,300	ND		U	ND	0.38	U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2-Methylphenol[f]	NE	NE	3,100	31,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
4-Methylphenol[f]	NE	NE	6,100	62,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Naphthalene	NE	NE	43	241	ND		U	ND		U	ND		U	ND		U	0.066	0.4	J	ND	0.38	U
2-Nitroaniline[f]	NE	NE	610	6,000	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
4-Nitroaniline[f]	NE	NE	24	86	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2-Nitrophenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
4-Nitrophenol	NE	NE	NE	NE	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
N-Nitroso-di-n-propylamine[f]	NE	NE	0.069	0.25	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Pentachlorophenol	NE	NE	8.94	30	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND		U	ND	0.38	U	ND		U	ND		U	0.54	0.4		ND	0.38	U
Phenol	NE	NE	18,300	205,000	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Pyrene	NE	NE	1,720	18,300	ND		U	ND	0.38	U	ND		U	ND		U	0.81	0.4		ND	0.38	U
1,2,4-Trichlorobenzene	NE	NE	73	367	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND		U	ND		U	ND		U	ND		U	ND	1.9	U	ND	1.8	U
2,4,6-Trichlorophenol	NE	NE	61.1	684	ND		U	ND		U	ND		U	ND		U	ND	0.4	U	ND	0.38	U
Total Petroleum Hydrocarbons (mg/kg)																						
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	ND	46.9	U	ND	46.6	U	ND		U	ND		U	696	48		ND	46.1	U

Refer to footnotes at the end of the table.

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3105-0010			CAN031-3106-0000			CAN031-3106-0005			CAN031-3106-0010			CAN031-3107-0000		
LAB SAMPLE NUMBER					0397140014SA			0397140015SA			0397140016SA			0397140017SA			0398710006SA		
SAMPLE DEPTH (ft bgs)					10			0			5			10			0		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/8/1994			12/8/1994			12/8/1994			12/8/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Fluoroanthene	NE	NE	2,290	24,400	ND	0.38	U	3.8	0.36		ND	0.4	U	ND	0.38	U	4.8	3.7	
Fluorene	NE	NE	2,290	24,400	ND	0.38	U	0.096	0.36	J	ND	0.4	U	ND	0.38	U	ND	3.7	U
Hexachlorobenzene	NE	NE	3.04	12	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Hexachloroethane	NE	NE	42.8	479	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.38	U	0.92	0.36		ND	0.4	U	ND	0.38	U	1.1	3.7	J
Isophorone	NE	NE	5,120	137,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2-Methylnaphthalene[f]	NE	NE	230	2,300	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2-Methylphenol[f]	NE	NE	3,100	31,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
4-Methylphenol[f]	NE	NE	6,100	62,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	1.1	3.7	J
Naphthalene	NE	NE	43	241	ND	0.38	U	0.039	0.36	J	ND	0.4	U	ND	0.38	U	3.1	3.7	J
2-Nitroaniline[f]	NE	NE	610	6,000	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
4-Nitroaniline[f]	NE	NE	24	86	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
Nitrobenzene	NE	NE	53.5	300	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
N-Nitroso-di-n-propylamine[f]	NE	NE	0.069	0.25	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Pentachlorophenol	NE	NE	8.94	30	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.38	U	1.5	0.36		ND	0.4	U	ND	0.38	U	1.9	3.7	J
Phenol	NE	NE	18,300	205,000	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Pyrene	NE	NE	1,720	18,300	ND	0.38	U	2.7	0.36		ND	0.4	U	ND	0.38	U	3.5	3.7	J
1,2,4-Trichlorobenzene	NE	NE	73	367	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	1.9	U	ND	1.8	U	ND	1.9	U	ND	1.8	U	ND	18	U
2,4,6-Trichlorophenol	NE	NE	61.1	684	ND	0.38	U	ND	0.36	U	ND	0.4	U	ND	0.38	U	ND	3.7	U
Total Petroleum Hydrocarbons (mg/kg)																			
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	ND	46.3	U	914	132		ND	48.2	U	ND	45.7	U	**2,500**	225	

Refer to footnotes at the end of the table.

TABLE II-1

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report [a] and 1995 Phase II RFI Report [b]

Cannon AFB, New Mexico

FIELD ID					CAN031-3107-0005			CAN031-3107-0010			CAN031-3107-6005		
LAB SAMPLE NUMBER					0398710002SA			0398710004SA			0398710010SA		
SAMPLE DEPTH (ft bgs)					5			10			5.0 (Duplicate)		
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	12/13/1994			12/13/1994			12/13/1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
Fluoroanthene	NE	NE	2,290	24,400	0.12	0.38	J	ND	0.39	U	0.17	0.38	J
Fluorene	NE	NE	2,290	24,400	ND	0.38	U	ND	0.39	U	ND	0.38	U
Hexachlorobenzene	NE	NE	3.04	12	ND	0.38	U	ND	0.39	U	ND	0.38	U
Hexachlorobutadiene	NE	NE	61.1	246	ND	0.38	U	ND	0.39	U	ND	0.38	U
Hexachlorocyclopentadiene	NE	NE	367	4,100	ND	0.38	U	ND	0.39	U	ND	0.38	U
Hexachloroethane	NE	NE	42.8	479	ND	0.38	U	ND	0.39	U	ND	0.38	U
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	ND	0.38	U	ND	0.39	U	ND	0.38	U
Isophorone	NE	NE	5,120	137,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
2-Methylnaphthalene[f]	NE	NE	230	2,300	ND	0.38	U	ND	0.39	U	ND	0.38	U
2-Methylphenol[f]	NE	NE	3,100	31,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
4-Methylphenol[f]	NE	NE	6,100	62,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
Naphthalene	NE	NE	43	241	ND	0.38	U	ND	0.39	U	ND	0.38	U
2-Nitroaniline[f]	NE	NE	610	6,000	ND	1.8	U	ND	1.9	U	ND	1.8	U
3-Nitroaniline	NE	NE	NE	NE	ND	1.8	U	ND	1.9	U	ND	1.8	U
4-Nitroaniline[f]	NE	NE	24	86	ND	1.8	U	ND	1.9	U	ND	1.8	U
Nitrobenzene	NE	NE	53.5	300	ND	0.38	U	ND	0.39	U	ND	0.38	U
2-Nitrophenol	NE	NE	NE	NE	ND	0.38	U	ND	0.39	U	ND	0.38	U
4-Nitrophenol	NE	NE	NE	NE	ND	1.8	U	ND	1.9	U	ND	1.8	U
N-Nitroso-di-n-propylamine[f]	NE	NE	0.069	0.25	ND	0.38	U	ND	0.39	U	ND	0.38	U
N-Nitrosodiphenylamine	NE	NE	993	3,910	ND	0.38	U	ND	0.39	U	ND	0.38	U
Pentachlorophenol	NE	NE	8.94	30	ND	1.8	U	ND	1.9	U	ND	1.8	U
Phenanthrene	NE	NE	1,830	20,500	ND	0.38	U	ND	0.39	U	ND	0.38	U
Phenol	NE	NE	18,300	205,000	ND	0.38	U	ND	0.39	U	ND	0.38	U
Pyrene	NE	NE	1,720	18,300	ND	0.38	U	ND	0.39	U	ND	0.38	U
1,2,4-Trichlorobenzene	NE	NE	73	367	ND	0.38	U	ND	0.39	U	ND	0.38	U
2,4,5-Trichlorophenol	NE	NE	6,110	68,400	ND	1.8	U	ND	1.9	U	ND	1.8	U
2,4,6-Trichlorophenol	NE	NE	61.1	684	ND	0.38	U	ND	0.39	U	ND	0.38	U
Total Petroleum Hydrocarbons (mg/kg)													
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	ND	45.9	U	ND	47.1	U	ND	46	U

Refer to footnotes at the end of the table.

TABLE II-1
SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 1994 Phase I RFI Report a
Cannon AFB, New Mexico

Notes:
BOLD indicates an exceedance.
CAN031-0314-0002 = Site code (Cannon AFB, SWMU 31); Soil boring location number (0314); and sample depth (0002= 2 – 4 ft bgs).

AFB	Air Force Base
AGE	Aerospace ground equipment
bgs	Below ground surface
EPA	U.S. Environmental Protection Agency
ft	Feet
ID	Identification
J	Concentration reported below the method reporting limit
MCL	Maximum contaminant level
mg/kg	Milligram per kilogram
NA	Not applicable or not available
ND	Not detected
NE	Not established
NMED	New Mexico Environment Department
NS	Not sampled
Qual	Qualifier
R	Rejected value
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RL	Reporting limit
RSL	Regional screening level
SSL	Soil screening level
SWMU	Solid Waste Management Unit
TPH	Total petroleum hydrocarbon
U	Value is below method detection limit/nondetect
UJ	Estimated as non-detect at instrument detection limit

(a) Woodward-Clyde, 1994, *RCRA Facility Investigation, Appendix III SWMUs, Phase I* , Cannon AFB, New Mexico.
(b) Woodward-Clyde, 1995, *RCRA Facility Investigation, Appendix III SWMUs, Phase II* , Cannon Air Force Base, New Mexico.
(c) Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .
(d) NMED, 2012, Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program, Table A-1 Updated June 2012.
(e) In the absence of a total chromium screening level, chromium (III) is used (NMED, 2012).
(f) Value is the EPA RSL from the Mid-Atlantic Risk Assessment, Regional Screening Levels, on-line risk-based concentrations table for Residential Soil: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm.
(g) Value is for unknown oil from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program.

TABLE II-2

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 2008 VCM Report [a]

Cannon AFB, New Mexico

Sample ID	Sample Depth (ft bgs)	Date Collected	TPH-DRO (Method 8015M) (mg/kg) 1,000[b]			TPH-GRO (Method 8015M) (mg/kg) 1,000[b]			TPH-RRO (Method 8015M) (mg/kg) 1,000[b]		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
031SB0101	0.0 - 2.5	2009[c]	310	10		ND	1		340	20	
031SB0102	2.5 - 5.0	2009[c]	69	10		ND	1		15	20	J
031SB0105	5.0 - 7.5	2009[c]	ND	10		ND	1		ND	20	
031SB0200	0.0 - 2.5	2009[c]	120	10		ND	1		72	20	
031SB0202	2.5 - 5.0	2009[c]	ND	10		ND	1		ND	20	
031SB0300	0.0 - 2.5	2009[c]	160	10		ND	1		64	20	
031SB0302	2.5 - 5.0	2009[c]	ND	10		ND	1		ND	20	
031SB0402	2.5 - 5.0	2009[c]	ND	10		ND	1		ND	20	
031SB0500	0.0 - 2.5	2009[c]	31	10		ND	1		170	20	
031SB0600	0.0 - 3.0	2009[c]	**1700**	10		110	1		410	20	
031SB0603	0.0 - 3.0	2009[c]	10	10	J	ND	1		ND	20	
031SB0700	0.0 - 3.0	2009[c]	ND	10		0.71	1	J	**1200**	20	J
031SB0800	0.0 - 2.5	2009[c]	ND	10		ND	1		130	20	J
031SB0900	0.0 - 3.0	2009[c]	ND	10		ND	1		21	20	J
031SB1000	0.0 - 2.0	2009[c]	7.5	10	J	ND	1		14	20	J
031SB1100	0.0 - 2.0	2009[c]	170	10		9	1		ND	20	
031SB1200	0.0 - 3.0	2009[c]	ND	10		ND	1		13	20	J
031SB1300	0.0 - 2.5	2009[c]	ND	10		ND	1		31	20	
031SB1400	0.0 - 2.5	2009[c]	**1200**	10		150	1		140	20	
031SB1402	2.5 - 5.0	2009[c]	ND	10		ND	1		ND	20	
031SB1500	0.0 - 2.0	2009[c]	ND	10		ND	1		ND	20	
031SB1600	0.0 - 2.5	2009[c]	190	10		66	1		170	20	
031SB1700	0.0 - 2.5	2009[c]	ND	10		ND	1		ND	20	
031SB1800	0.0 - 2.0	2009[c]	110	10		15	1		ND	20	
031SB1900	0.0 - 2.5	2009[c]	ND	10		ND	1		16	20	J
031SB2000	0.0 - 3.0	2009[c]	ND	10		ND	1		ND	20	

TABLE II-2

SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 2008 VCM Report [a]

Cannon AFB, New Mexico

Sample ID	Sample Depth (ft bgs)	Date Collected	TPH-DRO (Method 8015M) (mg/kg) 1,000[b]			TPH-GRO (Method 8015M) (mg/kg) 1,000[b]			TPH-RRO (Method 8015M) (mg/kg) 1,000[b]		
			Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
S01	Excavation Sidewall	4/8/2009	1.2	4.7	U	3.7	1.2		NS		
S02	Excavation Sidewall	4/8/2009	1.1	4.5	U	0.37	1.1	U	NS		
S03	Excavation Sidewall	4/8/2009	4.6	4.7	F	0.42	1.2	F	NS		
S04	Excavation Sidewall	4/8/2009	24	4.5		0.4	1.1	F	NS		
S05	Excavation Sidewall	4/8/2009	30	4.2		2.5	1.1		NS		
S06	Excavation Sidewall	4/8/2009	8.9	4.6		0.41	1.1	F	NS		
S07	Excavation Sidewall	4/8/2009	**1500**	24		26	1.2		NS		
S08	Excavation Sidewall	4/8/2009	1.2	4.7	U	0.56	1.2	F	NS		
S09	Base of Excavation	4/8/2009	8.5	4.4		0.045	1.1	F	NS		
S10	Base of Excavation	4/8/2009	2.9	4.5	F	0.67	1.1	F	NS		
S11	Base of Excavation	4/8/2009	1.1	4.5	U	0.37	1.1	U	NS		
S12	Base of Excavation	4/8/2009	82	4.4		1.3	1.1		NS		
S13	Base of Excavation	4/8/2009	17	4.7		1.2	1.2		NS		
S14	Base of Excavation	4/8/2009	250	4.2		2.4	1.1		NS		
S15	Base of Excavation	4/8/2009	1.1	4.5	U	0.37	1.1	U	NS		
S16	Base of Excavation	4/8/2009	71	4.3		11	1.1		NS		
S17	Base of Excavation	4/8/2009	50	4.3		13	1.1		NS		
S18	Base of Excavation	4/10/2009	1.1	4.6	U	1.2	1.2	U	NS		
S19	Base of Excavation	4/10/2009	1.2	4.6	U	1.3	1.2	U	NS		
S20	Base of Excavation	4/10/2009	1.2	4.8	U	0.39	1.2	U	NS		
S21	Base of Excavation	9/16/2009	46	4.4		1.2	1.1		NS		
S22	Base of Excavation	9/16/2009	1.1	4.6	U	0.37	1.2	U	NS		
S23	Base of Excavation	9/16/2009	1.6	4.5	F	0.36	1.1	U	NS		
S24	Base of Excavation	9/16/2009	1.1	4.6	U	0.37	1.1	U	NS		
S25	Base of Excavation	9/16/2009	1.1	4.6	U	0.37	1.1	U	NS		

TABLE II-2
SWMU 31 (AGE Maintenance Pad) Soil Analytical Data from 2008 VCM Report a
Cannon AFB, New Mexico

Notes:

BOLD indicates an exceedance.

031SB0101	Site code (SWMU 31); soil boring location number (01); and sample depth (01 = 0.0 - 2.5 ft bgs).
AFB	Air Force Base
AGE	Aerospace Ground Equipment
bgs	Below ground surface
DRO	Diesel range organics
F	Estimated value below the method reporting limit and above the method detection limit
ft	Feet
GRO	Gasoline range organics
ID	Identification
J	Concentration reported below the method reporting limit
mg/kg	Milligram per kilogram
ND	Not detected
NS	Not sampled
Qual	Qualifier
RL	Reporting limit
RRO	Resident-range organics
SWMU	Solid Waste Management Unit
TPH	Total Petroleum Hydrocarbons
U	Value is below method detection limit/nondetect
VCM	Voluntary Corrective Measures

(a) Bay West, Inc. & Tetra Tech EC, Inc., 2008, *Draft Letter Report, Voluntary Corrective Action, AGE Maintenance Facility Shop Pad (SWMU 31) and POL Wash Pad (SWMU 127)* , Cannon AFB, New Mexico. May 2008.

(b) Value is for unknown oil from Table 6-2 of *Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program* .

(c) Precise date of collection could not be determined; however, samples were collected prior to confirmation samples (S01 - S25).

TABLE II-3

SWMU 34 (AGE Drainage Ditch) Soil Analytical Data from 1987 and 2009 Reports [a,b]

Cannon AFB, New Mexico

Sample ID	Sample Depth (ft bgs)	Date Collected	TOTAL PETROLEUM HYDROCARBONS								METALS			
			TOTAL TPH (Method 8015B) (mg/kg)				TPH-GRO (Method 8015B) (mg/kg)				LEAD (Method 6010B) (mg/kg)			
			1,000 Residential TPH Guideline[c]				**1,000** Residential TPH Guideline[c]				**400** Residential SSL Guideline[d]			
			1,000 Industrial TPH Guideline[c]				**1,000** Industrial TPH Guideline[c]				**800** Industrial SSL Guideline[d]			
			Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
1-1	0 - 1	3/12/1987	200	5	NA		NS				110	0.3	NA	
1-2	1 - 2	3/12/1987	ND	5	NA	U	NS				8.6	0.3	NA	
2-1	0 - 1	3/12/1987	120	5	NA		NS				**500**	0.3	NA	
2-2	1 - 2	3/12/1987	6.6	5	NA		NS				6.6	0.3	NA	
3-1	0 - 1	3/12/1987	540	5	NA		NS				120	0.3	NA	
4-1	0 - 1	3/12/1987	280	5	NA		NS				26	0.3	NA	
5-1	0 - 0.6	3/12/1987	57	5	NA		NS				67	0.3	NA	
5-2	0.6 - 1.5	3/12/1987	ND	5	NA	U	NS				5.6	0.3	NA	
6-1	0 - 0.75	3/12/1987	15	5	NA		NS				25	0.3	NA	
6-2	0.75 - 1.4	3/12/1987	ND	5	NA	U	NS				8.2	0.3	NA	
7-1	0 - 0.6	3/12/1987	ND	5	NA	U	NS				62	0.3	NA	
8-1	0 - 0.6	3/12/1987	120	5	NA		NS				32	0.3	NA	
9-1	0 - 0.6	3/12/1987	120	5	NA		NS				32	0.3	NA	
9-2	0.6 - 1.3	3/12/1987	ND	5	NA	U	NS				7.6	0.3	NA	
10-1	0 - 0.9	3/12/1987	910	5	NA		NS				62	0.3	NA	
11-1	0 - 0.6	3/12/1987	280	5	NA		NS				80	0.3	NA	
12-1	0 - 0.6	3/12/1987	320	5	NA		NS				90	0.3	NA	
13-1	0 - 0.6	3/12/1987	150	5	NA		NS				35	0.3	NA	
13-2	0.6 - 2.0	3/12/1987	ND	5	NA	U	NS				16	0.3	NA	
15-1	0 - 1.0	3/13/1987	120	5	NA		NS				55	0.3	NA	
20-1	0 - 0.75	3/13/1987	75	5	NA		NS				45	0.3	NA	
C34-SS01-000	0 - 0.5	10/18/2008	ND	NA	NA		62	1	10		ND	NA	NA	
C34-SS01-006	0.5 - 1.0	10/18/2008	NS				NS				**682**	0.45	25	
C34-SS02-000	0 - 0.5	10/18/2008	ND	NA	NA		54	1	10		102	0.09	5	
C34-SS03-000	0 - 0.5	10/18/2008	ND	NA	NA		43	1	10		92.4	0.09	5	J
C34-SS04-000	0 - 0.5	10/18/2008	ND	NA	NA		38	1	10		47	0.09	5	
C34-SS05-000	0 - 0.5	10/18/2008	ND	NA	NA		15	1	10		21.8	0.09	5	
C34-SS05-006	0.5 - 1.0	10/18/2008	NS				NS				25.7	0.09	5	
C34-SS06-000	0 - 0.5	10/18/2008	ND	NA	NA		14	1	10		23.1	0.09	5	

TABLE II-3
SWMU 34 (AGE Drainage Ditch) Soil Analytical Data from 1987 and 2009 Reports a,b
Cannon AFB, New Mexico

Notes:

BOLD indicates an exceedance.

C34-SS01-006	Site code (Cannon AFB, SWMU 34); Media code (SS = surface soil) and soil boring location number (01); and sample depth (006 = 0.5 - 1 ft bgs).
AFB	Air Force Base
AGE	Aerospace Ground Equipment
bgs	Below ground surface
DRO	Diesel range organics
ft	Feet
ID	Identification
J	Concentration reported below the method reporting limit
mg/kg	Milligram per kilogram
MDL	Method detection limit
NA	Not applicable or not available
ND	Not detected
NMED	New Mexico Environment Department
NS	Not sampled
Qual	Qualifier
RL	Reporting limit
SSL	Soil screening level
SWMU	Solid Waste Management Unit
TPH	Total Petroleum Hydrocarbons
U	Value is below method detection limit/nondetect

(a) URS Group, Inc., 2009 RFI for SWMUs 34, 78, 85, 91, and 107 Addendum Report, Cannon AFB, New Mexico.

(b) Radian Corporation, 1987, Soil Removal Investigation Report, AGE Drainage Ditch, Site 15, Cannon AFB, New Mexico.

(c) Value is for unknown oil from Table 6-2 of *Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program* .

(d) NMED, 2012, *Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program* , Table A-1.

TABLE II-4

SWMU 34 (AGE Drainage Ditch) Soil Analytical Data from 1992 RI Report [a]

Cannon AFB, New Mexico

FIELD ID	Background Concentrations for Surface Soil [b] (mg/kg)	Background Concentration for Subsurface Soil [b] (mg/kg)	Residential SSL/TPH Screening Guideline [c] (mg/kg)	Industrial SSL/TPH Screening Guideline [c] (mg/kg)	0341-000 (0344)			0341-001			0342-001			0342-005			0342-009		
SAMPLE DEPTH (ft bgs)					0.0 – 0.5			1.0 – 3.0			1.5 – 3.0			5.0 – 7.0			9.0 – 11.0		
DATE COLLECTED					24-Oct-91			8-Dec-91			22-Oct-91			22-Oct-91			22-Oct-91		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																			
Aluminum	8,950	12,214	78,000	1,130,000	4,040	NA		8,230	NA		12,500	NA		9,170	NA		NS		
Antimony	3.15	16	31.3	454	5	NA	UJ	5.5	NA	UJ	5.2	NA	UJ	5.2	NA	UJ	NS		
Arsenic	3.6	4.3	3.9	17.7	1.6	NA	J	2.8	NA	J	2	NA	J	2	NA	J	NS		
Barium	670	890	15,600	223,000	148	NA	J	161	NA	J	94.8	NA		163	NA	J	NS		
Beryllium	0.78	0.73	156	2,260	ND	NA		ND	NA		0.55	NA	J	0.49	NA	J	NS		
Cadmium	0.435	1.3	70.3	897	1.3	NA		ND	NA		ND	NA		ND	NA		NS		
Calcium	44,800	237,498	NE	NE	39,200	NA		49,100	NA		69,700	NA		122,000	NA		NS		
Chromium [d]	11	13	117,000	1,703,333	12.3	NA		10.4	NA		10.5	NA		8.1	NA		NS		
Cobalt [e]	6.6	4.7	23	300	2.8	NA	J	2.8	NA	J	4.2	NA	J	3.5	NA	J	NS		
Copper	18.3	8.3	3,130	45,400	15	NA		20.7	NA		ND	NA		ND	NA		NS		
Iron	10,100	13,148	54,800	795,000	4,680	NA	J	6,710	NA	J	8,920	NA		6,450	NA		NS		
Lead	12	8.7	400	800	40.7	NA		38.1	NA		6.5	NA		5.1	NA		NS		
Magnesium	1,930	19,300	NE	NE	1,530	NA		2,330	NA		2,810	NA		3,320	NA		NS		
Manganese	307	333	1,860	26,700	83.9	NA		173	NA	J	120	NA		83.4	NA	J	NS		
Mercury	0.056	0.019	15.6	73.6	ND	NA		ND	NA		ND	NA		ND	NA		NS		
Nickel	11	15	1,560	22,500	ND	NA		7.1	NA	J	9.2	NA		7.1	NA	J	NS		
Potassium	2,691	2,512	NE	NE	860	NA	J	1,570	NA		2,140	NA		1,520	NA		NS		
Selenium	0.26	1.1	391	5,680	2.2	NA	J	R	NA		R	NA		R	NA		NS		
Silver	0.4	2.7	391	5,680	ND	NA		ND	NA		ND	NA		ND	NA		NS		
Sodium	102	1,227	NE	NE	319	NA	J	ND	NA		ND	NA		ND	NA		NS		
Thallium	0.6	2.65	0.782	11.4	0.22	NA	UJ	0.24	NA	UJ	0.23	NA	UJ	0.23	NA	UJ	NS		
Vanadium	23	33	391	5,680	11.8	NA		16	NA		18.1	NA		19.1	NA		NS		
Zinc	32	31	23,500	341,000	237	NA	J	60.3	NA	J	22	NA		16.8	NA	J	NS		
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																			
Phenanthrene	NE	NE	1,830	20,500	0.20	0.710	J	0.37	0.710	J	ND	0.710		ND	0.710		ND	0.710	
Fluoroanthene	NE	NE	2,290	24,400	0.40	0.710	J	0.84	0.710		ND	0.710		ND	0.710		ND	0.710	
Pyrene	NE	NE	1,720	18,300	0.27	0.710	J	0.6	0.710		ND	0.710		ND	0.710		ND	0.710	
Anthracene	NE	NE	17,200	183,000	ND	0.710		0.10	0.710	J	ND	0.710		ND	0.710		ND	0.710	
Chrysene	NE	NE	148	2,340	0.20	0.710	J	0.37	0.710	J	ND	0.710		ND	0.710		ND	0.710	
Benzo(a)anthracene	NE	NE	1.48	23.4	0.16	0.710	J	0.34	0.710	J	ND	0.710		ND	0.710		ND	0.710	
Benzo(a)pyrene	NE	NE	0.148	2.34	**0.20**	0.710	J	**0.31**	0.710	J	ND	0.710		ND	0.710		ND	0.710	
Benzo(b)fluoranthene	NE	NE	1.48	23.4	0.40	0.710	J	0.52	0.710		ND	0.710		ND	0.710		ND	0.710	
Benzo(k)fluoranthene	NE	NE	14.8	234	ND	0.710		0.02	0.710	J	ND	0.710		ND	0.710		ND	0.710	
Dibenz(a,h)anthracene	NE	NE	0.148	2.34	ND	0.710		0.053	0.710	J	ND	0.710		ND	0.710		ND	0.710	
Benzo(g,h,i)perylene	NE	NE	NE	NE	0.30	0.710	J	ND	0.710		ND	0.710		ND	0.710		ND	0.710	
Indeno(1,2,3-cd)pyrene	NE	NE	1.48	23.4	0.24	0.710	J	0.25	0.710	J	ND	0.710		ND	0.710		ND	0.710	
TOTAL PETROLEUM HYDROCARBONS (mg/kg)																			
Total Petroleum Hydrocarbons [f]	NE	NE	1,000	1,000	**1,180**	NA		397	NA		ND	NA		ND	NA		ND	NA	

Refer to footnotes at the end of the table.

TABLE II-4
SWMU 34 (AGE Drainage Ditch) Soil Analytical Data from 1992 RI Report a
Cannon AFB, New Mexico

Notes:
BOLD indicates an exceedance.

0341	Field ID (SWMU 34); 1 refers to boring number
AFB	Air Force Base
AGE	Aerospace Ground Equipment
bgs	Below ground surface
EPA	U.S. Environmental Protection Agency
ID	Identification
ND	Not detected
ft	Feet
J	Estimated concentration
mg/kg	Milligram per kilogram
NE	Not established
NMED	New Mexico Environment Department
NS	Not sampled
R	Result rejected
RCRA	Resource conservation and Recovery Act
RSL	Regional screening level
RFI	RCRA Facility Investigatio
SWMU	Solid Waste Management Unit
UJ	Estimated as non-detect at instrument detection limit

(a) Woodward-Clyde, 1992, *Final Remedial Investigation Report for 18 Solid Waste Management Units* , Cannon AFB, Clovis, New Mexico.

(b) Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .

(c) NMED, 2012, *Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program* , Table A-1 updated June 2012.

(d) In the absence of a total chromium screening level, chromium (III) is used.

(e) Value is the EPA RSL from the Mid-Atlantic Risk Assessment, Regional Screening Levels, on-line risk-based concentrations table for Residential Soil: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm.

(f) Value is for unknown oil from Table 6-2 of *Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program* .

TABLE II-5

SWMU 78 (Fire Training Area No. 1) Soil Analytical Data from 1986, 1992, and 2009 Reports [a,b,c]

Cannon AFB, New Mexico

FIELD ID	Background Concentrations for Surface Soil [d]	Background Concentration for Subsurface Soil [d]	Residential SSL/TPH Screening Guideline [e]	Industrial SSL/TPH Screening Guideline [e]	0781			0781			0781			0782			0782			0782		
SAMPLE DEPTH (ft bgs)					0.5			6			12			0.5			6			12		
DATE COLLECTED					10/13/1991			10/12/1991			10/12/1991			10/13/1991			10/13/1991			10/13/1991		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																						
Aluminum	8,950	12,214	78,000	1,130,000	26000	NA	J	13200	NA	J	10500	NA	J	10700	NA	J	6240	NA	J	6570	NA	J
Arsenic	3.6	4.3	3.9	17.7	1.9	NA	J	2.7	NA		2.1	NA	J	2	NA	J	1.8	NA	J	1.3	NA	J
Barium	670	890	15,600	223,000	165	NA	J	111	NA	J	392	NA	J	142	NA	J	158	NA	J	101	NA	J
Beryllium	0.78	0.73	156	2,260	ND	NA	U	0.59	NA	J	0.5	NA	J	0.49	NA	J	ND	NA	U	ND	NA	U
Cadmium	0.435	1.3	70.3	897	21.6	NA		ND	NA	U	0.9	NA	U	10.5	NA		ND	NA	U	ND	NA	U
Calcium	44,800	237,498	NE	NE	254	NA		27400	NA		73500	NA		1950	NA		96400	NA		15100	NA	
Chromium [f]	11	13	117,000	1,703,333	39.6	NA		11.3	NA		8.1	NA	J	16.7	NA		5.8	NA		5.6	NA	
Cobalt [g]	6.6	4.7	23	300	2.0	NA	J	5.3	NA	J	3.6	NA	J	4	NA	J	2.2	NA	J	2.2	NA	J
Copper	18.3	8.3	3,130	45,400	710	NA		12.6	NA		7	NA		112	NA		8.9	NA		6	NA	
Iron	10,100	13,148	54,800	795,000	7100	NA		11300	NA		7880	NA		9230	NA		5060	NA		4660	NA	
Lead	12	8.7	400	800	336	NA		16.3	NA		6.1	NA		292	NA		6.8	NA		3.8	NA	
Magnesium	1,930	19,300	NE	NE	1170	NA		2640	NA		4370	NA		1410	NA		2490	NA		4290	NA	
Manganese	307	333	1,860	26,700	225	NA		214	NA		153	NA		171	NA		66	NA		55.5	NA	
Mercury	0.056	0.019	15.6	73.6	ND	NA	U	ND	NA	U	ND	NA	U	0.11	NA		ND	NA	U	ND	NA	U
Nickel	11	15	1,560	22,500	8.8	NA	J	11.6	NA		8.8	NA		7.8	NA	J	5.8	NA	J	7.4	NA	J
Potassium	2,691	2,512	NE	NE	1450	NA		2070	NA	J	1890	NA		1900	NA	J	1110	NA		1420	NA	
Vanadium	23	33	391	5,680	14.4	NA		23.4	NA		25	NA		18.7	NA		16.4	NA		15.2	NA	
Zinc	32	31	23,500	341,000	829	NA		33.7	NA		21.4	NA		21.4	NA		18	NA		13.7	NA	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																						
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS			ND	NA	U	ND	NA	U	NS			NS			NS		
Acetone	NE	NE	66,600	868,000	NS			ND	NA	U	ND	NA	U	NS			NS			NS		
Toluene	NE	NE	5,270	57,700	NS			0.001	NA	J	ND	NA	U	NS			NS			NS		
Trichloroethene	NE	NE	8.77	41.3	NS			ND	NA	U	ND	NA	U	NS			NS			NS		
Vinyl chloride	NE	NE	0.728	26.1	NS			ND	NA	U	ND	NA	U	NS			NS			NS		
Xylenes (total)	NE	NE	814	3,980	NS			ND	NA	U	ND	NA	U	NS			NS			NS		
TOTAL PETROLEUM HYDROCARBONS/ORGANICS (mg/kg)																						
Total Petroleum Hydrocarbons	NE	NE	1,000 [h]	1,000 [h]	2200	NA		ND	NA	U	ND	NA	U	1970	NA		ND	NA	U	ND	NA	U
TPH-DRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
TPH-GRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
Oil and Grease	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
Purgeable Organics	NE	NE	NE	NE	NS			NS			NS			NS			NS			NS		
PESTICIDES (mg/kg)																						
4,4-DDD [i]	NE	NE	20.3	79.8	15	NA	J	0.023	NA		ND	NA	U	0.091	NA		ND	NA	UJ	ND	NA	UJ
4,4-DDE [j]	NE	NE	14.3	56.3	0.57	NA		ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	UJ	ND	NA	UJ
4,4-DDT [k]	NE	NE	17.2	78.1	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U
Alpha Chlordane [l]	NE	NE	16.2	71.9	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U
Gamma Chlordane [l]	NE	NE	16.2	71.9	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U	ND	NA	U

TABLE II-5

SWMU 78 (Fire Training Area No. 1) Soil Analytical Data from 1986, 1992, and 2009 Reports [a,b,c]

Cannon AFB, New Mexico

FIELD ID					0783			0784			0785			0786			0787			0788		
SAMPLE DEPTH (ft bgs)					0.5			0.5			0.5			0.5			0.5			0.5		
DATE COLLECTED	Background Concentrations for Surface Soil [d]	Background Concentration for Subsurface Soil [d]	Residential SSL/TPH Screening Guideline [e]	Industrial SSL/TPH Screening Guideline [e]	10/12/1991			10/13/1991			10/13/1991			10/13/1991			12/16/1991			12/7/1991		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																						
Aluminum	8,950	12,214	78,000	1,130,000	10200	NA	J	9110	NA	J	14200	NA	J	13900	NA	J	NS			NS		
Arsenic	3.6	4.3	3.9	17.7	1.8	NA	J	1.6	NA	J	1.7	NA	J	2.5	NA	J	NS			NS		
Barium	670	890	15,600	223,000	115	NA	J	132	NA	J	220	NA	J	83.5	NA	J	NS			NS		
Beryllium	0.78	0.73	156	2,260	ND	NA	U	0.53	NA	J	ND	NA	U	ND	NA	U	NS			NS		
Cadmium	0.435	1.3	70.3	897	3.3	NA		7.7	NA		4.1	NA		ND	NA	U	NS			NS		
Calcium	44,800	237,498	NE	NE	1450	NA		1290	NA		832	NA	J	12200	NA		NS			NS		
Chromium [f]	11	13	117,000	1,703,333	14.2	NA		13.4	NA		29.1	NA		12.1	NA		NS			NS		
Cobalt [g]	6.6	4.7	23	300	3.3	NA	J	2.5	NA		1.9	NA		4.5	NA	J	NS			NS		
Copper	18.3	8.3	3,130	45,400	52	NA		84.7	NA		385	NA		13	NA		NS			NS		
Iron	10,100	13,148	54,800	795,000	8950	NA		7500	NA		6580	NA		11400	NA		NS			NS		
Lead	12	8.7	400	800	194	NA		271	NA		529	NA		25.6	NA		NS			NS		
Magnesium	1,930	19,300	NE	NE	1390	NA		1290	NA		96.8	NA	J	2020	NA		NS			NS		
Manganese	307	333	1,860	26,700	99.5	NA		74.6	NA		51.1	NA		198	NA		NS			NS		
Mercury	0.056	0.019	15.6	73.6	0.12	NA		ND	NA	U	ND	NA	U	ND	NA	U	NS			NS		
Nickel	11	15	1,560	22,500	6.8	NA		5.6	NA		5.9	NA	J	8.8	NA	J	NS			NS		
Potassium	2,691	2,512	NE	NE	1880	NA	J	1710	NA	J	1110	NA	J	2570	NA	J	NS			NS		
Vanadium	23	33	391	5,680	19.2	NA		15.4	NA		14.1	NA		24.3	NA		NS			NS		
Zinc	32	31	23,500	341,000	126	NA		154	NA		614	NA		33.3	NA	J	NS			NS		
VOLATILE ORGANIC COMPOUNDS (mg/kg)																						
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS			NS			NS			0.001	NA	J	ND	NA	U	ND	NA	UJ
Acetone	NE	NE	66,600	868,000	NS			NS			NS			ND	NA	U	ND	NA	U	0.014	NA	J
Toluene	NE	NE	5,270	57,700	NS			NS			NS			0.01	NA	J	ND	NA	U	ND	NA	UJ
Trichloroethene	NE	NE	8.77	41.3	NS			NS			NS			0.002	NA	J	ND	NA	U	0.003	NA	J
Vinyl chloride	NE	NE	0.728	26.1	NS			NS			NS			ND	NA	U	ND	NA	U	0.011	NA	J
Xylenes (total)	NE	NE	814	3,980	NS			NS			NS			0.004	NA	J	ND	NA	U	ND	NA	UJ
TOTAL PETROLEUM HYDROCARBONS/ORGANICS (mg/kg)																						
Total Petroleum Hydrocarbons	NE	NE	1,000 [h]	1,000 [h]	4080	NA		980	NA		12500	NA	J	ND	NA	U	95	NA		ND	NA	U
TPH-DRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
TPH-GRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
Oil and Grease	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
Purgeable Organics	NE	NE	NE	NE	NS			NS			NS			NS			NS			NS		
PESTICIDES (mg/kg)																						
4,4-DDD [i]	NE	NE	20.3	79.8	2.0	NA		0.66	NA		0.16	NA		ND	NA	U	NS			NS		
4,4-DDE [j]	NE	NE	14.3	56.3	ND	NA	U	0.058	NA	J	0.11	NA		0.0011	NA	J	NS			NS		
4,4-DDT [k]	NE	NE	17.2	78.1	ND	NA	U	ND	NA	U	ND	NA	U	0.0028	NA	J	NS			NS		
Alpha Chlordane [l]	NE	NE	16.2	71.9	ND	NA	U	ND	NA	U	ND	NA	U	0.0016	NA	J	NS			NS		
Gamma Chlordane [l]	NE	NE	16.2	71.9	ND	NA	U	ND	NA	U	ND	NA	U	0.0012	NA	J	NS			NS		

TABLE II-5

SWMU 78 (Fire Training Area No. 1) Soil Analytical Data from 1986, 1992, and 2009 Reports [a,b,c]

Cannon AFB, New Mexico

FIELD ID	Background Concentrations for Surface Soil [d]	Background Concentration for Subsurface Soil [d]	Residential SSL/TPH Screening Guideline [e]	Industrial SSL/TPH Screening Guideline [e]	7810			7811			6A			6A			6A			6B		
SAMPLE DEPTH (ft bgs)					0.5			0.5			1			2			3			1		
DATE COLLECTED					12/7/1991			12/16/1991			1985[m]			1985[m]			1985[m]			1985[m]		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																						
Aluminum	8,950	12,214	78,000	1,130,000	NS			NS			NS			NS			NS			NS		
Arsenic	3.6	4.3	3.9	17.7	NS			NS			NS			NS			NS			NS		
Barium	670	890	15,600	223,000	NS			NS			NS			NS			NS			NS		
Beryllium	0.78	0.73	156	2,260	NS			NS			NS			NS			NS			NS		
Cadmium	0.435	1.3	70.3	897	NS			NS			NS			NS			NS			NS		
Calcium	44,800	237,498	NE	NE	NS			NS			NS			NS			NS			NS		
Chromium [f]	11	13	117,000	1,703,333	NS			NS			NS			NS			NS			NS		
Cobalt [g]	6.6	4.7	23	300	NS			NS			NS			NS			NS			NS		
Copper	18.3	8.3	3,130	45,400	NS			NS			NS			NS			NS			NS		
Iron	10,100	13,148	54,800	795,000	NS			NS			NS			NS			NS			NS		
Lead	12	8.7	400	800	NS			NS			4.5	NA		3.2	NA		28	NA		3.8	NA	
Magnesium	1,930	19,300	NE	NE	NS			NS			NS			NS			NS			NS		
Manganese	307	333	1,860	26,700	NS			NS			NS			NS			NS			NS		
Mercury	0.056	0.019	15.6	73.6	NS			NS			NS			NS			NS			NS		
Nickel	11	15	1,560	22,500	NS			NS			NS			NS			NS			NS		
Potassium	2,691	2,512	NE	NE	NS			NS			NS			NS			NS			NS		
Vanadium	23	33	391	5,680	NS			NS			NS			NS			NS			NS		
Zinc	32	31	23,500	341,000	NS			NS			NS			NS			NS			NS		
VOLATILE ORGANIC COMPOUNDS (mg/kg)																						
1,1,2-Trichloroethane	NE	NE	2.81	13.3	ND	NA	U	ND	NA	U	NS			NS			NS			NS		
Acetone	NE	NE	66,600	868,000	NS			0.01	NA	J	NS			NS			NS			NS		
Toluene	NE	NE	5,270	57,700	ND	NA	U	ND	NA	U	NS			NS			NS			NS		
Trichloroethene	NE	NE	8.77	41.3	0.001	NA	J	ND	NA	U	NS			NS			NS			NS		
Vinyl chloride	NE	NE	0.728	26.1	ND	NA	U	ND	NA	U	NS			NS			NS			NS		
Xylenes (total)	NE	NE	814	3,980	0.002	NA	J	ND	NA	U	NS			NS			NS			NS		
TOTAL PETROLEUM HYDROCARBONS/ORGANICS (mg/kg)																						
Total Petroleum Hydrocarbons	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
TPH-DRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
TPH-GRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS			NS		
Oil and Grease	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			2800	NA		1700	NA		520	NA	
Purgeable Organics	NE	NE	NE	NE	NS			NS			NS			ND	NA	U	ND	NA	U	ND	NA	U
PESTICIDES (mg/kg)																						
4,4-DDD [i]	NE	NE	20.3	79.8	NS			NS			NS			NS			NS			NS		
4,4-DDE [j]	NE	NE	14.3	56.3	NS			NS			NS			NS			NS			NS		
4,4-DDT [k]	NE	NE	17.2	78.1	NS			NS			NS			NS			NS			NS		
Alpha Chlordane [l]	NE	NE	16.2	71.9	NS			NS			NS			NS			NS			NS		
Gamma Chlordane [l]	NE	NE	16.2	71.9	NS			NS			NS			NS			NS			NS		

TABLE II-5

SWMU 78 (Fire Training Area No. 1) Soil Analytical Data from 1986, 1992, and 2009 Reports [a,b,c]

Cannon AFB, New Mexico

FIELD ID					6B			6B			C78-SS01			C78-SS02			C78-SS03		
SAMPLE DEPTH (ft bgs)					2			3			0			0			0		
DATE COLLECTED	Background Concentrations for Surface Soil [d]	Background Concentration for Subsurface Soil [d]	Residential SSL/TPH Screening Guideline [e]	Industrial SSL/TPH Screening Guideline [e]	1985[m]			1985[m]			10/20/2008			10/20/2008			10/20/2008		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																			
Aluminum	8,950	12,214	78,000	1,130,000	NS			NS			NS			NS			NS		
Arsenic	3.6	4.3	3.9	17.7	NS			NS			NS			NS			NS		
Barium	670	890	15,600	223,000	NS			NS			NS			NS			NS		
Beryllium	0.78	0.73	156	2,260	NS			NS			NS			NS			NS		
Cadmium	0.435	1.3	70.3	897	NS			NS			NS			NS			NS		
Calcium	44,800	237,498	NE	NE	NS			NS			NS			NS			NS		
Chromium [f]	11	13	117,000	1,703,333	NS			NS			NS			NS			NS		
Cobalt [g]	6.6	4.7	23	300	NS			NS			NS			NS			NS		
Copper	18.3	8.3	3,130	45,400	NS			NS			NS			NS			NS		
Iron	10,100	13,148	54,800	795,000	NS			NS			NS			NS			NS		
Lead	12	8.7	400	800	23	NA		1.8	NA		**894**	50		390	25		392	25	
Magnesium	1,930	19,300	NE	NE	NS			NS			NS			NS			NS		
Manganese	307	333	1,860	26,700	NS			NS			NS			NS			NS		
Mercury	0.056	0.019	15.6	73.6	NS			NS			NS			NS			NS		
Nickel	11	15	1,560	22,500	NS			NS			NS			NS			NS		
Potassium	2,691	2,512	NE	NE	NS			NS			NS			NS			NS		
Vanadium	23	33	391	5,680	NS			NS			NS			NS			NS		
Zinc	32	31	23,500	341,000	NS			NS			NS			NS			NS		
VOLATILE ORGANIC COMPOUNDS (mg/kg)																			
1,1,2-Trichloroethane	NE	NE	2.81	13.3	NS			NS			NS			NS			NS		
Acetone	NE	NE	66,600	868,000	NS			NS			NS			NS			NS		
Toluene	NE	NE	5,270	57,700	NS			NS			NS			NS			NS		
Trichloroethene	NE	NE	8.77	41.3	NS			NS			NS			NS			NS		
Vinyl chloride	NE	NE	0.728	26.1	NS			NS			NS			NS			NS		
Xylenes (total)	NE	NE	814	3,980	NS			NS			NS			NS			NS		
TOTAL PETROLEUM HYDROCARBONS/ORGANICS (mg/kg)																			
Total Petroleum Hydrocarbons	NE	NE	1,000 [h]	1,000 [h]	NS			NS			NS			NS			NS		
TPH-DRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			410	50		280	50		340	50	
TPH-GRO	NE	NE	1,000 [h]	1,000 [h]	NS			NS			ND	NA	U	ND	NA	U	ND	NA	U
Oil and Grease	NE	NE	1,000 [h]	1,000 [h]	14	NA		310	NA		NS			NS			NS		
Purgeable Organics	NE	NE	NE	NE	ND	NA	U	ND	NA	U	NS			NS			NS		
PESTICIDES (mg/kg)																			
4,4-DDD [i]	NE	NE	20.3	79.8	NS			NS			NS			NS			NS		
4,4-DDE [j]	NE	NE	14.3	56.3	NS			NS			NS			NS			NS		
4,4-DDT [k]	NE	NE	17.2	78.1	NS			NS			NS			NS			NS		
Alpha Chlordane [l]	NE	NE	16.2	71.9	NS			NS			NS			NS			NS		
Gamma Chlordane [l]	NE	NE	16.2	71.9	NS			NS			NS			NS			NS		

TABLE II-5
SWMU 78 (Fire Training Area No. 1) Soil Analytical Data from 1986, 1992, and 2009 Reports a,b,c
Cannon AFB, New Mexico

Notes:

BOLD indicates an exceedance.

C78-SS01	Site code (Cannon AFB, SWMU 78); Media code (SS = surface soil); soil boring location number (01).
AFB	Air Force Base
bgs	Below ground surface
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethylene
DDT	Dichlorodiphenyltrichloroethane
DRO	Diesel range organics
EPA	U.S. Environmental Protection Agency
ft	Feet
GRO	Gasoline range organics
ID	Identification
J	Concentration reported below the method reporting limit
mg/kg	Milligram per kilogram
ND	Not detected
NE	Not established
NMED	New Mexico Environment Department
No.	Number
Qual	Qualifier
RCRA	Resource Conservation and Recovery Act
RL	Reporting limit
RSL	Regional screening level
SSL	Soil screening level
SWMU	Solid Waste Management Unit
TPH	Total Petroleum Hydrocarbons
U	Value is below method detection limit/nondetect
UJ	Estimated as non-detect at instrument detection limit

(a) Radian, 1986, *Installation Restoration Program Phase II – Confirmation/Quantification Stage I* , Cannon Air Force Base, New Mexico, September.
(b) Woodward-Clyde, 1992, *Remedial Investigation Report for 18 Solid Waste Management Units* , Cannon Air Force Base, New Mexico, October.
(c) URS Group, Inc., 2009, *Final RCRA Facility Investigation for SWMUs 34, 78, 85, 91, 95, and 107 Addendum Report,* Cannon Air Force Base, New Mexico, June.
(d) Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .
(e) NMED, 2012, Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program, Table A-1 Updated June 2012.
(f) In the absence of a total chromium screening level, chromium (III) is used. (NMED,2012)
(g) Value is the EPA RSL from the Mid-Atlantic Risk Assessment, Regional Screening Levels, on-line risk-based concentrations table for Residential Soil: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm.
(h) Value is for unknown oil from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program.
(i) SSLs used are for "DDD"
(j) SSLs used are for "DDE"
(k) SSLs used are for "DDT"
(l) SSLs used are for "Chlordane"
(m) Precise date of collection could not be determined.

TABLE II-6

SWMU 85 (Stormwater Collection Point) Soil Analytical Data from 1997, 2007, and 2009 Reports [a,b, c]

Cannon AFB, New Mexico

Sample ID	Sample Depth (ft bgs)	Date Collected	METALS			
			ARSENIC (mg/kg)			
			4.3	Background Concentration[e]		
			3.9	Residential SSL Guideline[d]		
			17.7	Industrial SSL Guideline[d]		
			Result	MDL	RL	Qual
ST-1	3 - 4	1985[f]	1.6	NA	NA	
ST-2	3 - 4	1985[f]	1.8	NA	NA	
ST-3	3 - 4	1985[f]	1.5	NA	NA	
S12-B1	0	1/13/1988	**50.3**	NA	NA	
S12-B1	2	1/13/1988	**51.9**	NA	NA	
S12-B1	4	1/13/1988	**88.4**	NA	NA	
S12-B2	1.5	12/7/1987	**25.8**	NA	NA	
S12-B2	4	12/7/1987	**22.5**	NA	NA	
S12-B2	6.5	12/7/1987	**25.6**	NA	NA	
S12-B2	9	12/7/1987	**22.2**	NA	NA	
S12-B2	11.5	12/7/1987	**19.3**	NA	NA	
S12-B2	16.5	12/7/1987	**23.3**	NA	NA	
S12-B2	21.5	12/7/1987	ND	NA	NA	U
S12-B2	26.5	12/7/1987	ND	NA	NA	U
S12-B2	31.5	12/7/1987	ND	NA	NA	U
S12-B3	1.5	12/7/1987	ND	NA	NA	U
S12-B3	4	12/7/1987	**23.7**	NA	NA	
S12-B3	6.5	12/7/1987	ND	NA	NA	U
S12-B3	9	12/7/1987	ND	NA	NA	U
S12-B3	11.5	12/7/1987	**19.9**	NA	NA	
S12-B3	16.5	12/7/1987	ND	NA	NA	U
S12-B3	21.5	12/7/1987	ND	NA	NA	U
S12-B3	26.5	12/7/1987	ND	NA	NA	U
S12-B3	31.5	12/7/1987	ND	NA	NA	U
S12-B4	0	1/13/1988	**38.7**	NA	NA	
S12-B4	2.5	1/13/1988	**56.1**	NA	NA	
S12-B4	5	1/13/1988	**77.1**	NA	NA	
S12-B4	7.5	1/13/1988	**69.4**	NA	NA	
S12-B4	10	1/13/1988	**98.1**	NA	NA	
S12-B4	15	1/13/1988	**61.7**	NA	NA	
S12-B4	20	1/13/1988	**112**	NA	NA	
S12-B4	25	1/13/1988	**56.2**	NA	NA	
S12-B4	30	1/13/1988	**74.3**	NA	NA	
S12-B5	10	1/14/1988	**73.5**	NA	NA	
S12-B5	12.5	1/14/1988	**11.1**	NA	NA	
S12-B5	15	1/14/1988	NR	NA	NA	
S12-B5	17.5	1/14/1988	**92.2**	NA	NA	
S12-B5	20	1/14/1988	**69**	NA	NA	
S12-B5	25	1/14/1988	**40.1**	NA	NA	

TABLE II-6

SWMU 85 (Stormwater Collection Point) Soil Analytical Data from 1997, 2007, and 2009 Reports [a,b, c]

Cannon AFB, New Mexico

Sample ID	Sample Depth (ft bgs)	Date Collected	METALS			
			ARSENIC (mg/kg)			
			4.3	Background Concentration[e]		
			3.9	Residential SSL Guideline[d]		
			17.7	Industrial SSL Guideline[d]		
			Result	MDL	RL	Qual
S12-B5	30	1/14/1988	**45.1**	NA	NA	
S12-B5	35	1/14/1988	**52.6**	NA	NA	
S12-B5	40	1/14/1988	**31.3**	NA	NA	
S12-B6	10	1/13/1988	**67.3**	NA	NA	
S12-B6	12.5	1/13/1988	**19.8**	NA	NA	
S12-B6	15	1/13/1988	**33.9**	NA	NA	
S12-B6	17.5	1/13/1988	**71.9**	NA	NA	
S12-B6	20	1/13/1988	**45.4**	NA	NA	
S12-B6	25	1/13/1988	**46.8**	NA	NA	
S12-B6	30	1/13/1988	**30.1**	NA	NA	
S12-B6	40	1/13/1988	ND	NA	NA	U
S12-B7	1.5	12/7/1987	**29**	NA	NA	
S12-B7	4	12/7/1987	ND	NA	NA	U
S12-B7	6.5	12/7/1987	ND	NA	NA	U
S12-B7	9	12/7/1987	ND	NA	NA	U
S12-B7	11.5	12/7/1987	ND	NA	NA	U
S12-B7	16.5	12/7/1987	ND	NA	NA	U
S12-B7	31.5	12/7/1987	ND	NA	NA	U
S12-B7	46.5	12/7/1987	ND	NA	NA	U
S12-B7	61.5	12/7/1987	ND	NA	NA	U
S12-B8	10	1/13/1988	ND	NA	NA	U
S12-B8	12.5	1/13/1988	**50.6**	NA	NA	
S12-B8	15	1/13/1988	ND	NA	NA	
S12-B8	17.5	1/13/1988	**46.4**	NA	NA	
S12-B8	20	1/13/1988	**65.7**	NA	NA	
S12-B8	25	1/13/1988	**68.5**	NA	NA	
S12-B8	40	1/13/1988	**41.7**	NA	NA	
S12-B8	55	1/13/1988	ND	NA	NA	U
S12-B8	70	1/13/1988	**33.8**	NA	NA	
C85-SS01-000	0 - 4	10/18/2008	**6**	0.09	0.6	
C85-SB01-000	0 - 4	10/22/2008	3.3	0.09	0.6	
C85-SB01-008	8 - 12	10/22/2008	2.8	0.09	0.6	
C85-SB01-012	12 - 16	10/22/2008	2	0.09	0.6	
C85-SB02-000	0 - 4	10/22/2008	2.8	0.09	0.6	
C85-SB02-008	4 - 8	10/22/2008	1.6	0.09	0.6	
C85-SB02-012	8 - 12	10/22/2008	2	0.09	0.6	

TABLE II-6
SWMU 85 (Stormwater Collection Point) Soil Analytical Data from 1997, 2007, and 2009 Reports a,b, c
Cannon AFB, New Mexico

Notes:

BOLD indicates an exceedance.

C85-SB01-012 = Site code (Cannon AFB, SWMU-95); Media code (SB = subsurface soil; SS = surface soil) and soil boring location number (01); and sample depth (012 = 12 ft bgs).

AFB	Air Force Base
bgs	Below ground surface
ft	Feet
ID	Identification
mg/kg	Milligram per kilogram
MDL	Method detection limit
NA	Not applicable or not available
NMED	New Mexico Environment Department
NR	Not reported
Qual	Qualifier
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RL	Reporting limit
SSL	Soil screening level
SWMU	Solid Waste Management Unit
U	Value is below method detection limit/nondetect
(a)	Harza Environmental Service, 1997, *Phase II RCRA Facility Investigation Report (Draft), Cannon Air Force Base, New Mexico* , August.
(b)	URS Group, Inc. 2007, *Final Revision 1 RFI Report for 21 SWMUs* , Cannon Air Force Base, New Mexico, October
(c)	URS Group, Inc., 2009, *Final RCRA Facility Investigation for SWMUs 34, 78, 85, 91, 95, and 107 Addendum Report* , Cannon Air Force Base, New Mexico, March.
(d)	NMED, 2012, Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program, Table A-1 updated June 2012.
(e)	Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .
(f)	Precise date of collection could not be determined.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID		Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	0951-0.5 (0953)[e]				0951-04 (0953)[e]				0951-06 (0953)[e]				0951-10 (0953)[e]				0952-0.5 (0954)[e]			
SAMPLE DEPTH (ft bgs)					0.0 – 0.5				2.0 - 4.0				4.0 – 6.0				8.0 - 10.0				0.0 - 0.5			
DATE COLLECTED	Background Concentrations for Surface Soil [c]				12/7/1991				12/7/1991				12/7/1991				12/7/1991				12/8/1991			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	2,180	NA	NA		4,560	NA	NA		9,840	NA	NA		7,840	NA	NA		6,320	NA	NA	
Arsenic	3.6	4.3	3.9	17.7	3.9	NA	NA		1.5	NA	NA	J	2.3	NA	NA		1.3	NA	NA	J	2.2	NA	NA	J
Barium	670	890	15,600	223,000	3,820	NA	NA		255	NA	NA		188	NA	NA		50.9	NA	NA		184	NA	NA	
Beryllium	0.78	0.73	156	2,260	ND	NA	NA	U	ND	NA	NA	U	0.54	NA	NA	J	0.54	NA	NA	J	ND	NA	NA	U
Cadmium	0.435	1.3	70.3	897	1.8	NA	NA		ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Calcium	44,800	237,498	NE	NE	144,000	NA	NA		223,000	NA	NA		88,900	NA	NA		109,000	NA	NA		137,000	NA	NA	
Chromium [f]	11	13	117,000	1,703,333	115	NA	NA	J	4.2	NA	NA		7.6	NA	NA		6.6	NA	NA		26.8	NA	NA	J
Cobalt [g]	6.6	4.7	23	300	12.6	NA	NA		2.7	NA	NA	J	4.3	NA	NA	J	3	NA	NA	J	3.5	NA	NA	J
Copper	18.3	8.3	3,130	45,400	59	NA	NA		ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Iron	10,100	13,148	54,800	795,000	41,200	NA	NA		2,660	NA	NA		6,530	NA	NA		4,730	NA	NA		6,310	NA	NA	
Lead	12	8.7	400	800	147	NA	NA		1.6	NA	NA		4.8	NA	NA		3.1	NA	NA		31.6	NA	NA	
Magnesium	1,930	19,300	NE	NE	2,740	NA	NA		3,910	NA	NA		4,500	NA	NA		4,340	NA	NA		26.1	NA	NA	
Manganese	307	333	1,860	26,700	443	NA	NA		115	NA	NA		103	NA	NA		57.2	NA	NA		165	NA	NA	
Mercury	0.056	0.019	15.6	73.6	0	NA	NA		ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	49.1	NA	NA		5.6	NA	NA	J	9.6	NA	NA		6.8	NA	NA	J	8.1	NA	NA	J
Potassium	2,691	2,512	NE	NE	448	NA	NA	J	814	NA	NA	J	2,030	NA	NA		1,680	NA	NA		1,130	NA	NA	J
Selenium	0.26	1.1	391	5,680	ND	NA	NA	UJ	ND	NA	NA	UJ	ND	NA	NA	UJ	ND	NA	NA	UJ	ND	NA	NA	UJ
Silver	0.4	2.7	391	5,680	ND	NA	NA	U	1	NA	NA	J	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Sodium	102	1,227	NE	NE	6,410	NA	NA		5,570	NA	NA		3,140	NA	NA		1,170	NA	NA		1,850	NA	NA	
Vanadium	23	33	391	5,680	15.5	NA	NA		9.4	NA	NA	J	20.7	NA	NA		14.3	NA	NA		13.8	NA	NA	
Zinc	32	31	23,500	341,000	467	NA	NA	J	7.6	NA	NA		17.4	NA	NA		11	NA	NA		62.6	NA	NA	J
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	0.14	NA	NA	J	0.022	NA	NA		0.011	NA	NA	J	0.017	NA	NA		ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	0.023	NA	NA	J	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	UJ
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	J	ND	NA	NA	U	ND	NA	NA	U	0.003	NA	NA	U	0.012	NA	NA	J
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	1.3	NA	NA	J	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	1.7	NA	NA	J	0.35	NA	NA	J	ND	NA	NA	U	0.045	NA	NA	J	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	0.24	NA	NA	J	ND	NA	NA	U
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	1,260	NA	NA		48.5	NA	NA	U	46.4	NA	NA	U	46.5	NA	NA	U	285	NA	NA	

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil[c]	Residential SSL/TPH Screening Guideline[d]	Industrial SSL/TPH Screening Guideline[d]	0952-04 (0954)[e]				0952-06 (0954)[e]				0952-10 (0954)[e]				S20-B1-0				S20-B1-2			
SAMPLE DEPTH (ft bgs)					2.0 - 4.0				4.0 - 6.0				8.0 - 10.0				0				2			
DATE COLLECTED					12/8/1991				12/8/1991				12/8/1991				1/10/1988				1/11/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	4,160	NA	NA		4,760	NA	NA		5,240	NA	NA		NS				NS			
Arsenic	3.6	4.3	3.9	17.7	1.9	NA	NA	J	1.8	NA	NA	J	1.9	NA	NA	J	**80.3**[i]	NA	NA		**92**[i]	NA	NA	
Barium	670	890	15,600	223,000	74.3	NA	NA		82.7	NA	NA		239	NA	NA		296	NA	NA		458	NA	NA	
Beryllium	0.78	0.73	156	2,260	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Cadmium	0.435	1.3	70.3	897	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	3.6	NA	NA		4.5	NA	NA	
Calcium	44,800	237,498	NE	NE	146,000	NA	NA		127,000	NA	NA		160,000	NA	NA		NS				NS			
Chromium[f]	11	13	117,000	1,703,333	4.4	NA	NA	J	4.3	NA	NA	J	4.4	NA	NA	J	9.6	NA	NA		10.5	NA	NA	
Cobalt[g]	6.6	4.7	23	300	1.5	NA	NA	J	2.4	NA	NA	J	3.1	NA	NA	J	NS				NS			
Copper	18.3	8.3	3,130	45,400	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Iron	10,100	13,148	54,800	795,000	3,810	NA	NA		3,880	NA	NA		3,830	NA	NA		NS				NS			
Lead	12	8.7	400	800	3.6	NA	NA		3.3	NA	NA		2.9	NA	NA		146	NA	NA		46.9	NA	NA	
Magnesium	1,930	19,300	NE	NE	2,360	NA	NA		2,290	NA	NA		3,450	NA	NA		NS				NS			
Manganese	307	333	1,860	26,700	106	NA	NA		99.9	NA	NA		113	NA	NA		NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	4.7	NA	NA	J	4.6	NA	NA	J	4.9	NA	NA	J	NS				174			
Potassium	2,691	2,512	NE	NE	982	NA	NA	J	1,110	NA	NA	J	1,110	NA	NA	J	NS				NS			
Selenium	0.26	1.1	391	5,680	ND	NA	NA	UJ	ND	NA	NA	UJ	ND	NA	NA	UJ	ND	NA	NA	U	NS	NA	NA	
Silver	0.4	2.7	391	5,680	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Sodium	102	1,227	NE	NE	1,410	NA	NA		1,800	NA	NA		1,420	NA	NA		NS				NS			
Vanadium	23	33	391	5,680	12.5	NA	NA		11.5	NA	NA	J	11.6	NA	NA	J	NS				NS			
Zinc	32	31	23,500	341,000	9	NA	NA		8.8	NA	NA		9.3	NA	NA	J	NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	0.021	NA	NA		ND	NA	NA	U	ND	NA	NA	UJ	ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	0.012	NA	NA	J	ND	NA	NA	U	ND	NA	NA	UJ	ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	UJ	ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	0.19	NA	NA	J	ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons[g]	NE	NE	1,000	1,000	49	NA	NA		49.9	NA	NA	U	48.5	NA	NA	U	NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil[c]	Residential SSL/TPH Screening Guideline[d]	Industrial SSL/TPH Screening Guideline[d]	S20-B1-4				S20-B2-0				S20-B2-2				S20-B2-4				S20-B3-0			
SAMPLE DEPTH (ft bgs)					4				0				2				4				0			
DATE COLLECTED					1/11/1988				1/12/1988				1/12/1988				1/12/1988				1/11/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**92**	NA	NA		NDi	NA	NA	U	**61.1**[i]	NA	NA		**33.2**[i]	NA	NA		**60.6**[i]	NA	NA	
Barium	670	890	15,600	223,000	737	NA	NA		151	NA	NA		138	NA	NA		98.2	NA	NA		441	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	4.1	NA	NA		3.8	NA	NA		2.9	NA	NA		2.5	NA	NA		5.5	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium[f]	11	13	117,000	1,703,333	7.7	NA	NA		18.3	NA	NA		7.8	NA	NA		6.9	NA	NA		10.5	NA	NA	
Cobalt[g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	31.5	NA	NA		84	NA	NA		65	NA	NA		52	NA	NA		76.1	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	0.61	NA	NA		ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	186	NA	NA		ND	NA	NA	U	151	NA	NA		150	NA	NA		149	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons[g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID		Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	S20-B3-2				S20-B3-4 R				S20-B4-0				S20-B4-2				S20-B4-4			
SAMPLE DEPTH (ft bgs)					2				4				0				2				4			
DATE COLLECTED	Background Concentrations for Surface Soil [c]				1/11/1988				1/11/1988				1/8/1988				1/8/1988				1/8/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**70.2** [i]	NA	NA		**152** [i]	NA	NA		NDi	NA	NA	U	NDi	NA	NA	U	NDi	NA	NA	U
Barium	670	890	15,600	223,000	1,530	NA	NA		107	NA	NA		561	NA	NA		281	NA	NA		150	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	5.5	NA	NA		2.4	NA	NA		4.6	NA	NA		3.3	NA	NA		1.3	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	10.9	NA	NA		1.4	NA	NA		14.1	NA	NA		7	NA	NA		6.3	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	28.1	NA	NA		19.4	NA	NA		59.4	NA	NA		30	NA	NA		32.5	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	131	NA	NA		273	NA	NA		61.8	NA	NA		51.1	NA	NA		71.4	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID		Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	S20-B5-0				S20-B5-2				S20-B5-4				S20-B6-0				S20-B6-2.5			
SAMPLE DEPTH (ft bgs)					0				2				4				0				2.5			
DATE COLLECTED	Background Concentrations for Surface Soil [c]				1/8/1988				1/8/1988				1/8/1988				1/9/1988				1/9/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	NDi	NA	NA	U	**36.9** [i]	NA	NA		NDi	NA	NA	U	**59.6** [i]	NA	NA		**49.6** [i]	NA	NA	
Barium	670	890	15,600	223,000	162	NA	NA		59.4	NA	NA		233	NA	NA		191	NA	NA		220	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	4	NA	NA		1.8	NA	NA		2.1	NA	NA		4.6	NA	NA		1.1	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	17.2	NA	NA		10.5	NA	NA		8.9	NA	NA		18.6	NA	NA		4.4	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	32.5	NA	NA		40.3	NA	NA		21.2	NA	NA		215	NA	NA		58	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	48.9	NA	NA		49.8	NA	NA		68.9	NA	NA		80.2	NA	NA		163	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					S20-B6-5				S20-B6-7.5				S20-B6-10				S20-B6-15				S20-B6-20			
SAMPLE DEPTH (ft bgs)					5				7.5				10				15				20			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	1/9/1988				1/9/1988				1/9/1988				1/9/1988				1/9/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**31.1**[i]	NA	NA		NDi	NA	NA	U	NDi	NA	NA	U	**57.4**[i]	NA	NA		**90**[i]	NA	NA	
Barium	670	890	15,600	223,000	97.1	NA	NA		233	NA	NA		92.9	NA	NA		121	NA	NA		302	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	2	NA	NA		1.7	NA	NA		1.7	NA	NA		1.7	NA	NA		2	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	8.1	NA	NA		4.8	NA	NA		4.6	NA	NA		5.3	NA	NA		5.5	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	121	NA	NA		24	NA	NA		38	NA	NA		49	NA	NA		72	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	121	NA	NA		ND	NA	NA	U	125	NA	NA		142	NA	NA		139	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					S20-B6-25				S20-B6-30				S20-B7-0				S20-B7-2.5				S20-B7-5			
SAMPLE DEPTH (ft bgs)					25				30				0				2.5				5			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	1/9/1988				1/9/1988				1/8/1988				1/8/1988				1/8/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**32**[i]	NA	NA		NDi	NA	NA	U	**21.4**[i]	NA	NA		NDi	NA	NA	U	NDi	NA	NA	U
Barium	670	890	15,600	223,000	107	NA	NA		36	NA	NA		390	NA	NA		573	NA	NA		497	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	ND	NA	NA	U	ND	NA	NA	U	3.7	NA	NA		22	NA	NA		2.9	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	2.5	NA	NA		2.5	NA	NA		9.5	NA	NA		8	NA	NA		7.5	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	38	NA	NA		21	NA	NA		33.7	NA	NA		29.7	NA	NA		43.7	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	101	NA	NA		ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	53.3	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	NS				NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	NS				NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	NS				NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	NS				NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS				NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					S20-B7-7.5				S20-B7-10				S20-B7-15				S20-B7-20				S20-B7-25			
SAMPLE DEPTH (ft bgs)					7.5				10				15				20				25			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	1/8/1988				1/8/1988				1/8/1988				1/8/1988				1/8/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	NDi	NA	NA	U	NDi	NA	NA	U	NDi	NA	NA	U	NDi	NA	NA	U	**63.2**[i]	NA	NA	
Barium	670	890	15,600	223,000	175	NA	NA		73.8	NA	NA		163	NA	NA		262	NA	NA		53.4	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	2.7	NA	NA		2.5	NA	NA		3.2	NA	NA		0.7	NA	NA		3.6	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	6.5	NA	NA		8.8	NA	NA		7	NA	NA		6.6	NA	NA		5.2	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	32.4	NA	NA		29.7	NA	NA		24.6	NA	NA		32.9	NA	NA		28.3	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	81.2	NA	NA		ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	11.2	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	NS				NS				NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	NS				NS				NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	NS				NS				NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	NS				NS				NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	NS				NS				NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					S20-B7-30				S20-B8-0				S20-B8-2.5				S20-B8-5				S20-B8-7.5			
SAMPLE DEPTH (ft bgs)					30				0				2.5				5				7.5			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	1/8/1988				1/7/1988				1/7/1988				1/7/1988				1/7/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**49.4**[i]	NA	NA		NDi	NA	NA	U	**23.1**[i]	NA	NA		NDi	NA	NA	U	**25.4**[i]	NA	NA	
Barium	670	890	15,600	223,000	38.9	NA	NA		227	NA	NA		4,290	NA	NA		218	NA	NA		245	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	2.4	NA	NA		2.6	NA	NA		4.5	NA	NA		2.7	NA	NA		2.4	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	3.9	NA	NA		6.3	NA	NA		11.4	NA	NA		8.3	NA	NA		10.5	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	29	NA	NA		47.6	NA	NA		57.7	NA	NA		37.8	NA	NA		60.3	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	10.1	NA	NA		54.2	NA	NA		94.9	NA	NA		51.5	NA	NA		78.6	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				0.027				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				0.07				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS				ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					S20-B8-10				S20-B8-15				S20-B8-20				S20-B8-25				S20-B8-30			
SAMPLE DEPTH (ft bgs)					10				15				20				25				30			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	1/7/1988				1/7/1988				1/7/1988				1/7/1988				1/7/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	NDi	NA	NA	U	NDi	NA	NA	U	NDi	NA	NA	U	NDi	NA	NA	U	NDi	NA	NA	U
Barium	670	890	15,600	223,000	106	NA	NA		134	NA	NA		68.6	NA	NA		67.6	NA	NA		35.4	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	2.4	NA	NA		4.9	NA	NA		1.6	NA	NA		0.09	NA	NA		1.6	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	7.5	NA	NA		8.5	NA	NA		7.1	NA	NA		4.5	NA	NA		5.3	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	23.3	NA	NA		38.8	NA	NA		46.2	NA	NA		23.9	NA	NA		19.3	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	ND	NA	NA	U	75.8	NA	NA		ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	NS				NS				NS				NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	NS				NS				NS				NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	NS				NS				NS				NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	NS				NS				NS				NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	NS				NS				NS				NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID		Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	S20-B9-0				S20-B9-2.5				S20-B9-5				S20-B9-7.5				S20-B9-10			
SAMPLE DEPTH (ft bgs)					0				2.5				5				7.5				10			
DATE COLLECTED	Background Concentrations for Surface Soil [c]				1/9/1988				1/9/1988				1/9/1988				1/9/1988				1/9/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	NDi	NA	NA	U	**61.7**[i]	NA	NA		**76.2**[i]	NA	NA		**19.1**[i]	NA	NA		**43**[i]	NA	NA	
Barium	670	890	15,600	223,000	149	NA	NA		195	NA	NA		331	NA	NA		110	NA	NA		76	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	4.9	NA	NA		1.9	NA	NA		3.3	NA	NA		1.2	NA	NA		1.7	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	15.9	NA	NA		8	NA	NA		9.3	NA	NA		6.4	NA	NA		6.7	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	75	NA	NA		75	NA	NA		60	NA	NA		45	NA	NA		50	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	105	NA	NA		175	NA	NA		75.3	NA	NA		130	NA	NA		132	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					S20-B9-15				S20-B9-20				S20-B9-25				S20-B9-30				S20-B10-0			
SAMPLE DEPTH (ft bgs)					15				20				25				30				0			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	1/9/1988				1/9/1988				1/9/1988				1/9/1988				1/12/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**32.7**[i]	NA	NA		**132**[i]	NA	NA		**19.6**[i]	NA	NA		**16.8**[i]	NA	NA		**22.7**[i]	NA	NA	
Barium	670	890	15,600	223,000	68	NA	NA		411	NA	NA		96.4	NA	NA		34.8	NA	NA		273	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	ND	NA	NA	U	2.1	NA	NA		1.3	NA	NA		ND	NA	NA	U	10.5	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	4.5	NA	NA		4.5	NA	NA		6	NA	NA		4.1	NA	NA		47.5	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	38	NA	NA		36	NA	NA		32	NA	NA		56	NA	NA		258	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	46.6	NA	NA		131	NA	NA		106	NA	NA		106	NA	NA		154	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	NS				NS				NS				NS				ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	NS				NS				NS				NS				ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	NS				NS				NS				NS				ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	NS				NS				NS				NS				ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS				NS				NS				NS				ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID		Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	S20-B10-2.5				S20-B10-5				S20-B10-7.5				S20-B10-10				S20-B10-15			
SAMPLE DEPTH (ft bgs)					2.5				5				7.5				10				15			
DATE COLLECTED	Background Concentrations for Surface Soil [c]				1/12/1988				1/12/1988				1/12/1988				1/12/1988				1/12/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	NDi	NA	NA	U	**30.5**[i]	NA	NA		**36.3**[i]	NA	NA		NDi	NA	NA	U	**51.9**[i]	NA	NA	
Barium	670	890	15,600	223,000	187	NA	NA		480	NA	NA		258	NA	NA		2	NA	NA		447	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	3.1	NA	NA		2.5	NA	NA		3.6	NA	NA		1	NA	NA		3.1	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	8.5	NA	NA		4.9	NA	NA		8.2	NA	NA		2	NA	NA		6.5	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	77	NA	NA		71	NA	NA		49	NA	NA		21	NA	NA		49	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	149	NA	NA		174	NA	NA		141	NA	NA		ND	NA	NA	U	74.1	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					S20-B10-20				S20-B10-25				S20-B10-30				S20-B11-0				S20-B11-2.5			
SAMPLE DEPTH (ft bgs)					20				25				30				0				2.5			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	1/12/1988				1/12/1988				1/12/1988				1/11/1988				1/11/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**89.5**[i]	NA	NA		**37.7**[i]	NA	NA		NDi	NA	NA	U	**66.3**[i]	NA	NA		**92.6**[i]	NA	NA	
Barium	670	890	15,600	223,000	164	NA	NA		85.2	NA	NA		34	NA	NA		191	NA	NA		453	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	2.4	NA	NA		1.4	NA	NA		1.7	NA	NA		5.2	NA	NA		1.2	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	4.7	NA	NA		4.9	NA	NA		3.2	NA	NA		20.3	NA	NA		5.1	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	47	NA	NA		40	NA	NA		42	NA	NA		64.3	NA	NA		36.3	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	107	NA	NA		83.3	NA	NA		ND	NA	NA	U	68.2	NA	NA		94.6	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	NS				NS				NS				ND	NA	NA	U	ND	NA	NA	U
2-Butanone (MEK)	NE	NE	37,100	375,000	NS				NS				NS				ND	NA	NA	U	ND	NA	NA	U
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	NS				NS				NS				ND	NA	NA	U	ND	NA	NA	U
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	NS				NS				NS				ND	NA	NA	U	ND	NA	NA	U
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS				NS				NS				ND	NA	NA	U	ND	NA	NA	U
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID					S20-B11-5				S20-B11-7.5				S20-B11-10				S20-B11-15				S20-B11-30			
SAMPLE DEPTH (ft bgs)					5				7.5				10				15				30			
DATE COLLECTED	Background Concentrations for Surface Soil[c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	1/11/1988				1/11/1988				1/11/1988				1/11/1988				1/11/1988			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**101**[i]	NA	NA		**103**[i]	NA	NA		**87.4**[i]	NA	NA		**93**[i]	NA	NA		**59.7**[i]	NA	NA	
Barium	670	890	15,600	223,000	560	NA	NA		411	NA	NA		618	NA	NA		579	NA	NA		34.5	NA	NA	
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	2.8	NA	NA		3.6	NA	NA		2.4	NA	NA		3.1	NA	NA		1.1	NA	NA	
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	7.3	NA	NA		9	NA	NA		7.9	NA	NA		5.4	NA	NA		2.4	NA	NA	
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	41.3	NA	NA		35.9	NA	NA		56.6	NA	NA		50	NA	NA		15.4	NA	NA	
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	76.6	NA	NA		57.1	NA	NA		50.7	NA	NA		48.8	NA	NA		39.2	NA	NA	
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	ND	NA	NA	U	ND	NA	NA	U	ND	NA	NA	U	NS				NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID		Background	Residential	Industrial	S20-B11-45				S20-B11-60				C95-SB01-000				C95-SB01-008				C95-SB01-012			
SAMPLE DEPTH (ft bgs)	Background	Concentration	SSL/TPH	SSL/TPH	45				60				0 - 4				8 - 12				12 - 16			
DATE COLLECTED	Concentrations	for Subsurface	Screening	Screening	1/11/1988				1/11/1988				10/22/2008				10/22/2008				10/22/2008			
	for Surface Soil[c]	Soil [c]	Guideline [d]	Guideline [d]	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	**50.2**[i]	NA	NA		NDi	NA	NA	U	**4.6**	0.09	0.6		2.7	0.09	0.6		3	0.09	0.6	
Barium	670	890	15,600	223,000	77.9	NA	NA		13.4	NA	NA		NS				NS				NS			
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	ND	NA	NA	U	ND	NA	NA	U	NS				NS				NS			
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	3.7	NA	NA		1.2	NA	NA		NS				NS				NS			
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	13.9	NA	NA		14.6	NA	NA		NS				NS				NS			
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	ND	NA	NA	U	ND	NA	NA	U	NS				NS				NS			
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	35.4	NA	NA		37.2	NA	NA		NS				NS				NS			
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	NS				NS				NS				NS				NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	NS				NS				NS				NS				NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	NS				NS				NS				NS				NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	NS				NS				NS				NS				NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS				NS				NS				NS				NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID		Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	C95-SB02-000				C95-SB02-006				C95-SB02-015				C95-SB03-000				C95-SB03-008			
SAMPLE DEPTH (ft bgs)					0 - 2				6 - 8				15 - 16				0 - 4				8 - 12			
DATE COLLECTED	Background Concentrations for Surface Soil [c]				10/21/2008				10/21/2008				10/21/2008				10/22/2008				10/22/2008			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																								
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	3.7	0.09	0.6		3.7	0.09	0.6		2.4	0.09	0.6		3.5	0.09	0.6		3.8	0.09	0.6	
Barium	670	890	15,600	223,000	NS				NS				NS				NS				NS			
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	NS				NS				NS				NS				NS			
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	NS				NS				NS				NS				NS			
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS				NS			
Lead	12	8.7	400	800	NS				NS				NS				NS				NS			
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	NS				NS				NS				NS				NS			
Nickel	11	15	1,560	22,500	NS				NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	NS				NS				NS				NS				NS			
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Acetone	NE	NE	66,600	868,000	NS				NS				NS				NS				NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	NS				NS				NS				NS				NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	NS				NS				NS				NS				NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																								
2-Methylnaphthalene	NE	NE	230	2,300	NS				NS				NS				NS				NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS				NS				NS				NS				NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																								
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7

SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports [a,b]

Cannon AFB, New Mexico

FIELD ID		Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	C95-SB03-012				C95-SB04-000				C95-SB04-008				C95-SB04-012			
SAMPLE DEPTH (ft bgs)					12 - 16				0 - 4				8 - 12				12 - 16			
DATE COLLECTED	Background Concentrations for Surface Soil [c]				10/22/2008				10/22/2008				10/22/2008				10/22/2008			
					Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual	Result	MDL	RL	Qual
METALS (mg/kg)																				
Aluminum	8,950	12,214	78,000	1,130,000	NS				NS				NS				NS			
Arsenic	3.6	4.3	3.9	17.7	2.6	0.09	0.6		3.7	0.09	0.6		2.8	0.09	0.6		2.6	0.09	0.6	
Barium	670	890	15,600	223,000	NS				NS				NS				NS			
Beryllium	0.78	0.73	156	2,260	NS				NS				NS				NS			
Cadmium	0.435	1.3	70.3	897	NS				NS				NS				NS			
Calcium	44,800	237,498	NE	NE	NS				NS				NS				NS			
Chromium [f]	11	13	117,000	1,703,333	NS				NS				NS				NS			
Cobalt [g]	6.6	4.7	23	300	NS				NS				NS				NS			
Copper	18.3	8.3	3,130	45,400	NS				NS				NS				NS			
Iron	10,100	13,148	54,800	795,000	NS				NS				NS				NS			
Lead	12	8.7	400	800	NS				NS				NS				NS			
Magnesium	1,930	19,300	NE	NE	NS				NS				NS				NS			
Manganese	307	333	1,860	26,700	NS				NS				NS				NS			
Mercury	0.056	0.019	15.6	73.6	NS				NS				NS				NS			
Nickel	11	15	1,560	22,500	NS				NS				NS				NS			
Potassium	2,691	2,512	NE	NE	NS				NS				NS				NS			
Selenium	0.26	1.1	391	5,680	NS				NS				NS				NS			
Silver	0.4	2.7	391	5,680	NS				NS				NS				NS			
Sodium	102	1,227	NE	NE	NS				NS				NS				NS			
Vanadium	23	33	391	5,680	NS				NS				NS				NS			
Zinc	32	31	23,500	341,000	NS				NS				NS				NS			
VOLATILE ORGANIC COMPOUNDS (mg/kg)																				
Acetone	NE	NE	66,600	868,000	NS				NS				NS				NS			
2-Butanone (MEK)	NE	NE	37,100	375,000	NS				NS				NS				NS			
Ethylbenzene	NE	NE	68.4	378	NS				NS				NS				NS			
Toluene	NE	NE	5,270	57,700	NS				NS				NS				NS			
Xylenes (total)	NE	NE	814	3,980	NS				NS				NS				NS			
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																				
2-Methylnaphthalene	NE	NE	230	2,300	NS				NS				NS				NS			
bis(2-Ethylhexyl) phthalate	NE	NE	347	1,370	NS				NS				NS				NS			
Butyl benzyl phthalate	NE	NE	260	910	NS				NS				NS				NS			
Total Petroleum Hydrocarbons (mg/kg)																				
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	1,000	NS				NS				NS				NS			

Refer to footnotes at the end of the table.

TABLE II-7
SWMU 95 (Northeast Stormwater Drainage Area) Historical Analytical Data from 1990 and 1992 Reports a,b
Cannon AFB, New Mexico

Notes:
BOLD indicates an exceedance.
0952-10 (0954) = Site code (Cannon AFB, SWMU-95); Soil boring location number (2); and sample depth 10 ft bgs).
C95-SB01-012 = Site code (Cannon AFB, SWMU 95); Media code (SB = subsurface soil) and soil boring location number (01); and sample depth (012 = 12 ft bgs).

AFB	Air Force Base
bgs	Below ground surface
EPA	U.S. Environmental Protection Agency
ft	Feet
ICP	Inductively coupled plasma
ID	Identification
J	Concentration reported below the method reporting limit
MDL	Method detection limit
MEK	2-Butanone
mg/kg	Milligram per kilogram
NA	Not applicable or not available
ND	Not detected
NE	Not established
NMED	New Mexico Environment Department
NS	Not sampled
Qual	Qualifier
RL	Reporting limit
RSL	Regional screening level
SSL	Soil screening level
SWMU	Solid Waste Management Unit
TPH	Total petroleum hydrocarbon
U	Value is below method detection limit/nondetect
UJ	Estimated as non-detect at instrument detection limit

(a) Walk, Haydel & Associates, Inc., 1990, *Installation Restoration Program Final Remedial Investigation Report* , Cannon Air Force Base, New Mexico.
(b) Woodward-Clyde, 1992, *Remedial Investigation Report for 18 Solid Waste Management Units* , Cannon Air Force Base, New Mexico, October.
(c) Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .
(d) NMED, 2012, Risk Assessment Guidance for Site Investigation and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau Voluntary Remediation Program, NMED, updated
(e) Results are from samples collected from re-drilled borings due to laboratory missed holding times.
(f) In the absence of a total chromium screening level, chromium (III) is used. (NMED,2012)
(g) Value is the EPA RSL from the Mid-Atlantic Risk Assessment, Regional Screening Levels, on-line risk-based concentrations table for Residential Soil: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm.
(h) Value is for unknown oil from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program.
(i) Data is questionable and not valid and may be attributed to inter-elemental interference during the inception of new ICP method.

TABLE II-8

SWMU 110 (Underground Waste Oil Tank #2336) Historical Subsurface Soil Analytical Data from 1997 Report[a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	Construction Worker SSL Screening Guideline [d]	Risk-Based SSL for a DAFof 20 [d]	SB12-0101 1.0 – 2.0 22-Feb-97		SB12-0102 2.0 - 3.0 22-Feb-97		SB12-0110 10.0 - 11.0 22-Feb-97		SB12-0121 21.0 - 22.0 22-Feb-97		SB12-0130 30.0 - 31.0 22-Feb-97	
							Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
METALS (mg/kg)																
Aluminum	8,950	12,214	78,000	1,130,000	40,700	1,100,000	7,620		5,310		3,630		4,630		3,280	
Antimony	3.15	16	31.3	454	124	13.2	2.9	J	ND	U	ND	U	ND	U	ND	U
Arsenic	3.6	4.3	3.9	17.7	53	0.262	1.9		1.4		1.2		1.7		1.3	
Barium	670	890	15,600	223,000	4,350	6,030	93.5		49.5		146		327		100	
Beryllium	0.78	0.73	156	2,260	144	1,150	0.57		0.42		0.36		0.35		0.21	
Cadmium	0.435	1.3	70.3	897	277	27.5	ND	U	ND	U	ND	U	ND	U	ND	U
Calcium	44,800	237,498	NE	NE	NE	NE	2,120		1,700		51,500		60,100		122,000	
Chromium [e]	11	13	117,000	1,703,333	465,000	1.97E+09	8.9		6.8		4		4.1		4.3	
Cobalt [f]	6.6	4.7	23	300	NE	NE	4.3		2.9		2.8		2.6		1.8	
Copper	18.3	8.3	3,130	45,400	12,400	1,030	5.6		4.6		3.1		3		1.7	
Iron	10,100	13,148	54,800	795,000	217,000	12,900	9,070		6,180		3,540		4,490		2,710	
Lead	12	8.7	400	800	800	NE	8.7		6.4		3.9		3.8		2.2	
Magnesium	1,930	19,300	NE	NE	NE	NE	1,330		931		2,010		2,980		3,260	
Manganese	307	333	1,860	26,700	440	1,140	164		85.4		81		66.3		30.1	
Mercury	0.056	0.019	15.6	73.6	13.6	0.654	ND	U	ND	U	ND	U	ND	U	ND	U
Nickel	11	15	1,560	22,500	6,190	953	7.8		6.5		5.3		5.7		3.6	
Potassium	2,691	2,512	NE	NE	NE	NE	1,410		1,060		1,080		1,540		570	
Selenium	0.26	1.1	391	5,680	1,550	19.3	0.1		0.077		0.094		ND	U	0.063	
Silver	0.4	2.7	391	5,680	1,550	31.3	ND	U	ND	U	ND	U	ND	U	ND	U
Sodium	102	1,227	NE	NE	NE	NE	ND	U	ND	U	142		194		184	
Thallium	0.6	2.65	0.782	11.4	3.1	0.52	ND	U	ND	U	ND	U	ND	U	ND	U
Vanadium	23	33	391	5,680	1,550	3,650	18.6		12.6		11.3		15.5		10.6	
Zinc	32	31	23,500	341,000	92,900	13,600	19		14.2		13.6		11.5		7.2	
Cyanide (total)	NE	NE	46.9	681	186	4.41	ND	U	ND	U	ND	U	ND	U	ND	U

TABLE II-8

SWMU 110 (Underground Waste Oil Tank #2336) Historical Subsurface Soil Analytical Data from 1997 Report[a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	Construction Worker SSL Screening Guideline [d]	Risk-Based SSL for a DAFof 20 [d]	SB12-0101 1.0 – 2.0 22-Feb-97		SB12-0102 2.0 - 3.0 22-Feb-97		SB12-0110 10.0 - 11.0 22-Feb-97		SB12-0121 21.0 - 22.0 22-Feb-97		SB12-0130 30.0 - 31.0 22-Feb-97	
							Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
1,1,1,2-Tetrachloroethane	NA	NA	29.1	161	779	0.0329	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,1-Trichloroethane	NA	NA	15,600	78,900	14,800	58.2	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2,2-Tetrachloroethane	NA	NA	8.02	43.5	221	0.00426	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichloroethane	NA	NA	2.81	13.3	472	0.00223	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethane	NA	NA	64.5	359	1,700	0.12	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethene	NA	NA	449	2,290	432	2.32	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloropropene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,3-Trichlorobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,3-Trichloropropane	NA	NA	0.0497	37.6	7.23	0.00005	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trichlorobenzene	NA	NA	73	367	68.7	0.183	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trimethylbenzene	NA	NA	NE	NE	NE	NE	0.0011	J	ND	U	0.002	J	ND	U	ND	U
1,2-Dibromo-3-Chloropropane	NA	NA	1.86	1.08	5.07	0.000022	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dibromoethane	NA	NA	0.588	3.22	16	0.000308	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichlorobenzene	NA	NA	2,310	14,000	2,710	5.6	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloroethane	NA	NA	7.89	43.5	58.7	0.00711	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloropropane	NA	NA	15.2	84.4	25	0.0214	ND	U	ND	U	ND	U	ND	U	ND	U
1,3,5-Trimethylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Dichloropropane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	NA	NA	31.7	177	831	0.0639	ND	U	ND	U	ND	U	ND	U	ND	U
2,2-Dichloropropane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
2-Butanone	NA	NA	37,100	375,000	84,300	25.5	ND	U	ND	U	ND	U	ND	U	ND	U
2-Chlorotoluene	NA	NA	1,560	22,700	6,190	11.2	ND	U	ND	U	ND	U	ND	U	ND	U
2-Hexanone	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Chlorotoluene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Methyl-2-Pentanone	NA	NA	5,820	73,800	18,500	7.68	ND	U	ND	U	ND	U	ND	U	ND	U
Acetone	NA	NA	66,600	868,000	221,000	77.1	ND	U	0.000132	J	0.000363	J	0.000124	J	ND	U
Benzene	NA	NA	15.4	84.7	138	0.0345	ND	U	ND	U	ND	U	ND	U	ND	U
Bromobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Bromochloromethane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Bromodichloromethane	NA	NA	5.41	30.1	143	0.00541	ND	U	ND	U	ND	U	ND	U	ND	U
Bromoform	NA	NA	616	2,420	4,760	12.1	ND	U	ND	U	ND	U	ND	U	ND	U
Bromomethane	NA	NA	16.5	86.5	16.4	0.0385	ND	U	ND	U	ND	U	ND	U	ND	U
Carbon Disulfide	NA	NA	1,530	8,330	1,580	5.65	ND	U	ND	U	ND	U	ND	U	ND	U
Carbon Tetrachloride	NA	NA	10.8	59.8	226	0.0321	ND	U	ND	U	ND	U	ND	U	ND	U
Chlorobenzene	NA	NA	376	2,120	406	0.984	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroethane	NA	NA	29,800	141,000	26,100	107	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroform	NA	NA	5.86	32.7	154	0.00918	ND	U	ND	U	ND	U	ND	U	ND	U
Chloromethane	NA	NA	275	1,290	241	0.879	ND	U	ND	U	ND	U	ND	U	ND	U
cis-1,2-dichloroethene	NA	NA	156	2,270	619	0.367	ND	U	ND	U	ND	U	ND	U	ND	U
cis-1,3-Dichloropropene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Dibromochloromethane	NA	NA	12.1	62.4	332	0.00661	ND	U	ND	U	ND	U	ND	U	ND	U

TABLE II-8

SWMU 110 (Underground Waste Oil Tank #2336) Historical Subsurface Soil Analytical Data from 1997 Report[a]

Cannon AFB, New Mexico

FIELD ID							SB12-0101		SB12-0102		SB12-0110		SB12-0121		SB12-0130	
SAMPLE DEPTH (ft bgs)							1.0 – 2.0		2.0 - 3.0		10.0 - 11.0		21.0 - 22.0		30.0 - 31.0	
DATE COLLECTED	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	Construction Worker SSL Screening Guideline [d]	Risk-Based SSL for a DAFof 20 [d]	22-Feb-97		22-Feb-97		22-Feb-97		22-Feb-97		22-Feb-97	
							Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Dibromomethane	NA	NA	51.6	254	3,100	0.0342	ND	U	ND	U	ND	U	ND	U	ND	U
Dichlorodifluoromethane	NA	NA	168	798	149	7.43	ND	U	ND	U	ND	U	ND	U	ND	U
Ethylbenzene	NA	NA	68.4	378	1,830	0.26	ND	U	ND	U	ND	U	ND	U	ND	U
Hexachlorobutadiene	NA	NA	61.1	246	238	0.257	ND	U	ND	U	ND	U	ND	U	ND	U
Isopropylbenzene	NA	NA	2,430	14,500	2,810	17.3	ND	U	ND	U	ND	U	ND	U	ND	U
m & p-Xylene	NA	NA	774	3,780	705	3.12	0.0027	J	0.0012	J	0.0011	J	ND	U	ND	U
Methylene Chloride	NA	NA	409	4,700	1,120	0.824	ND	U	ND	U	ND	U	ND	U	0.00014	
Naphthalene	NA	NA	43	241	158	0.0713	ND	U	ND	U	ND	U	ND	U	ND	U
n-Butylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
n-Propylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
o-Xylene	NA	NA	898	4,410	823	3.13	0.0012	J	ND	U	ND	U	ND	U	ND	U
p-Isopropyltoluene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
sec-Butylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Styrene	NA	NA	7,280	50,000	9,990	27.7	ND	U	ND	U	ND	U	ND	U	ND	U
tert-Butylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Tetrachloroethene	NA	NA	7.02	36.6	212	0.00861	ND	U	ND	U	ND	U	ND	U	ND	U
Toluene	NA	NA	5,270	57,700	13,400	25.3	0.0016	J	ND	U	ND	U	ND	U	ND	U
trans-1,2-Dichloroethene	NA	NA	270	1,440	273	0.538	ND	U	ND	U	ND	U	ND	U	ND	U
trans-1,3-Dichloropropene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Trichloroethene	NA	NA	8.77	41.3	7.68	0.0211	ND	U	ND	U	ND	U	ND	U	ND	U
Trichloroflouromethane	NA	NA	1,410	6,940	1,300	17.8	ND	U	ND	U	ND	U	ND	U	ND	U
Vinyl Chloride	NA	NA	0.728	26.1	149	0.00108	ND	U	ND	U	ND	U	ND	U	ND	U

TABLE II-8

SWMU 110 (Underground Waste Oil Tank #2336) Historical Subsurface Soil Analytical Data from 1997 Report[a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	Construction Worker SSL Screening Guideline [d]	Risk-Based SSL for a DAFof 20 [d]	SB12-0101 1.0 – 2.0 22-Feb-97		SB12-0102 2.0 - 3.0 22-Feb-97		SB12-0110 10.0 - 11.0 22-Feb-97		SB12-0121 21.0 - 22.0 22-Feb-97		SB12-0130 30.0 - 31.0 22-Feb-97	
							Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)																
1,2,4-Trichlorobenzene	NA	NA	73	367	68.7	0.183	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichlorobenzene	NA	NA	2,310	14,000	2,710	5.6	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	NA	NA	31.7	177	831	0.0639	ND	U	ND	U	ND	U	ND	U	ND	U
2,4,5-Trichlorophenol	NA	NA	6,110	68,400	23,800	207	ND	U	ND	U	ND	U	ND	U	ND	U
2,4,6-Trichlorophenol	NA	NA	61.1	684	238	2.07	ND	U	ND	U	ND	U	ND	U	ND	U
2,4-Dichlorophenol	NA	NA	183	2,050	715	2	ND	U	ND	U	ND	U	ND	U	ND	U
2,4-Dimethylphenol	NA	NA	1,220	13,700	4,760	13.3	ND	U	ND	U	ND	U	ND	U	ND	U
2,4-Dinitrophenol	NA	NA	122	1,370	476	1.26	ND	U	ND	U	ND	U	ND	U	ND	U
2,4-Dinitrotoluene	NA	NA	15.7	61.8	476	0.0449	ND	U	ND	U	ND	U	ND	U	ND	U
2,6-Dinitrotoluene	NA	NA	61.1	684	238	0.77	ND	U	ND	U	ND	U	ND	U	ND	U
2-Chloronaphthalene	NA	NA	6260	90,800	24,800	227	ND	U	ND	U	ND	U	ND	U	ND	U
2-Chlorophenol	NA	NA	391	5,680	1,550	2.31	ND	U	ND	U	ND	U	ND	U	ND	U
2-Methylnaphthalene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
2-Methylphenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
2-Nitroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
2-Nitrophenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
3,3'-Dichlorobenzidine	NA	NA	10.8	42.6	364	0.148	ND	U	ND	U	ND	U	ND	U	ND	U
3-Nitroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4,6-Dinitro-2-Methylphenol	NA	NA	4.89	54.7	19.1	0.0762	ND	U	ND	U	ND	U	ND	U	ND	U
4-Bromophenyl-Phenylether	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Chloro-3-Methylphenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Chloroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Chlorophenyl-Phenylether	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Methylphenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Nitroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
4-Nitrophenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Acenaphthene	NA	NA	3,440	36,700	18,600	338	ND	U	ND	U	ND	U	ND	U	ND	U
Acenaphthylene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Anthracene	NA	NA	17,200	183,000	66,800	5,410	ND	U	ND	U	ND	U	ND	U	ND	U
Benzo(a)Anthracene	NA	NA	1.48	23.4	213	1.57	ND	U	ND	U	ND	U	ND	U	ND	U
Benzo(a)Pyrene	NA	NA	0.148	2.34	21.3	0.52	ND	U	ND	U	ND	U	ND	U	ND	U
Benzo(b)Fluoranthene	NA	NA	1.48	23.4	213	5.31	ND	U	ND	U	ND	U	ND	U	ND	U
Benzo(k)Fluoranthene	NA	NA	14.8	234	2,060	52	ND	U	ND	U	ND	U	ND	U	ND	U
Benzoic Acid	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Benzyl Alcohol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Bis(-2-Chloroethoxy)Methane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Bis(-2-Chloroethyl)Ether	NA	NA	2.68	14.2	77.8	0.000527	ND	U	ND	U	ND	U	ND	U	ND	U
Bis(2-Chloroisopropyl)Ether	NA	NA	91.5	454	3,100	0.0466	ND	U	ND	U	ND	U	ND	U	ND	U
Bis(2-Ethylhexyl)Phthalate	NA	NA	347	1,370	4,760	172	ND	U	ND	U	ND	U	ND	U	ND	U
Butylbenzylphthalate	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Chrysene	NA	NA	148	2,340	20,600	160	ND	U	ND	U	ND	U	ND	U	ND	U

TABLE II-8

SWMU 110 (Underground Waste Oil Tank #2336) Historical Subsurface Soil Analytical Data from 1997 Report[a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [c]	Background Concentration for Subsurface Soil [c]	Residential SSL/TPH Screening Guideline [d]	Industrial SSL/TPH Screening Guideline [d]	Construction Worker SSL Screening Guideline [d]	Risk-Based SSL for a DAFof 20 [d]	SB12-0101 1.0 – 2.0 22-Feb-97		SB12-0102 2.0 - 3.0 22-Feb-97		SB12-0110 10.0 - 11.0 22-Feb-97		SB12-0121 21.0 - 22.0 22-Feb-97		SB12-0130 30.0 - 31.0 22-Feb-97	
							Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Dibenzo(a,h)Anthracene	NA	NA	0.148	2.34	21.3	1.69	ND	U	ND	U	ND	U	ND	U	ND	U
Dibenzofuran	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Diethylphthalate	NA	NA	48,900	547,000	191,000	193	ND	U	ND	U	ND	U	ND	U	ND	U
Dimethyl Phthalate	NA	NA	611,000	6,840,000	2,380,000	1,610	ND	U	ND	U	ND	U	ND	U	ND	U
Di-N-Butylphthalate	NA	NA	6,110	68,400	23,800	139	ND	U	ND	U	ND	U	ND	U	ND	U
Di-N-Octyl Phthalate	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
Fluoranthene	NA	NA	2,290	24,400	8,910	2,430	ND	U	ND	U	ND	U	ND	U	ND	U
Fluorene	NA	NA	2,290	24,400	8,910	406	ND	U	ND	U	ND	U	ND	U	ND	U
Hexachlorobenzene	NA	NA	3.04	12	103	0.0796	ND	U	ND	U	ND	U	ND	U	ND	U
Hexachlorobutadiene	NA	NA	61.1	246	238	0.257	ND	U	ND	U	ND	U	ND	U	ND	U
Hexachlorocyclopentadiene	NA	NA	367	4,100	811	10.5	ND	U	ND	U	ND	U	ND	U	ND	U
Hexachloroethane	NA	NA	42.8	479	167	0.164	ND	U	ND	U	ND	U	ND	U	ND	U
Indeno(1,2,3-cd)Pyrene	NA	NA	1.48	23.4	213	17.3	ND	U	ND	U	ND	U	ND	U	ND	U
Isophorone	NA	NA	5,120	137,000	47,500	3.84	ND	U	ND	U	ND	U	ND	U	ND	U
Naphthalene	NA	NA	43	241	158	0.0713	ND	U	ND	U	ND	U	ND	U	ND	U
Nitrobenzene	NA	NA	53.5	300	332	0.0125	ND	U	ND	U	ND	U	ND	U	ND	U
N-Nitroso-Di-N-Propylamine	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U	ND	U	ND	U
N-Nitrosodiphenylamine	NA	NA	993	3,910	33,600	11.3	ND	U	ND	U	ND	U	ND	U	ND	U
Pentachlorophenol	NA	NA	8.94	30	310	0.256	ND	U	ND	U	ND	U	ND	U	ND	U
Phenanthrene	NA	NA	1,830	20,500	7,150	571	ND	U	ND	U	ND	U	ND	U	ND	U
Phenol	NA	NA	18,300	205,000	68,800	99.5	ND	U	ND	U	ND	U	ND	U	ND	U
Pyrene	NA	NA	1,720	18,300	6,680	1,790	ND	U	ND	U	ND	U	ND	U	ND	U
Total Petroleum Hydrocarbons (mg/kg)																
Total Petroleum Hydrocarbons [g]	NE	NE	1,000	2,400	NE	NE	69.7		34.4		77.5		16.9		21.5	

TABLE II-8
SWMU 110 (Underground Waste Oil Tank #2336) Historical Subsurface Soil Analytical Data from 1997 Reporta
Cannon AFB, New Mexico

Notes:

SB12-0101 = Soil boring location number (SB12); and sample depth (0101 = 1.0 – 2.0 ft bgs)

AFB	Air Force Base
bgs	Below ground surface
DAF	Dilution attenuation factor
EPA	U.S. Environmental Protection Agency
ft	Feet
ID	Identification
J	Concentration reported below the method reporting limit
mg/kg	Milligram per kilogram
NA	Not applicable or not available
ND	Not detected
NE	Not established
NMED	New Mexico Environment Department
Qual	Qualifier
RSL	Regional screening level
SSL	Soil screening level
SWMU	Solid Waste Management Unit
TPH	Total petroleum hydrocarbon
U	Value is below method detection limit/nondetect

(a) Harza, 1997. *Phase II RCRA Facility Investigation Report – Draft 1997 – Fire Training Area No. 4 SWMU Nos. 109, 110, 111, 112* Cannon Air Force Base, New Mexico.

(b) Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .

(c) NMED, 2012, Risk Assessment Guidance for Site Investigation and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau Voluntary Remediation Program, NMED, updated June 2012.

(d) In the absence of a total chromium screening level, chromium (III) is used. (NMED,2012)

(e) Value is the EPA RSL from the Mid-Atlantic Risk Assessment, Regional Screening Levels, on-line risk-based concentrations table for Residential Soil: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm.

(f) Value is for kerosene and jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program.

TABLE II-9

SWMU 111/112 (Unlined Pit/OWS #2336) Historical Analytical Data from 1986 RI Report [a]

Cannon AFB, New Mexico

FIELD ID							1091			1091			1091			1091			1091			1091		
SAMPLE DEPTH (ft bgs)							0 - 0.5			5.0 - 7.0			10.0 - 12.0			20.0 - 22.0			30.0 - 32.0			40.0 - 42.0		
DATE COLLECTED	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAF of 20 [c]	10/8/1991			10/8/1991			10/8/1991			10/8/1991			10/8/1991			10/8/1991		
							Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																								
Chromium [d]	11	13	117,000	1,703,333	465,000	1.97E+09	10.0	NA		6.4	NA		4.5	NA		8.8	NA		7.8	NA		6.6	NA	
Lead	12	8.7	400	800	800	NE	6.4	NA		4.8	NA		4.2	NA		6.6	NA		3.7	NA		2.2	NA	
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Ethylbenzene	NE	NE	68.4	378	1830	0.26	ND	NA		NS			NS			NS			NS			NS		
Xylenes (total)	NE	NE	814	3,980	743	3	0.0	NA	J	NS			NS			NS			NS			NS		
TOTAL PETROLEUM HYDROCARBONS/ORGANICS (mg/kg)																								
Total Petroleum Hydrocarbons [e]	NE	NE	1,000	2,400	NE	NE	27.3	NA		NS			NS			NS			NS			NS		

TABLE II-9

SWMU 111/112 (Unlined Pit/OWS #2336) Historical Analytical Data from 1986 RI Report [a]

Cannon AFB, New Mexico

FIELD ID							1091			1091			1095			1095			1095			1095		
SAMPLE DEPTH (ft bgs)							50.0 - 52.0			60.0 - 62.0			5.0 - 7.0			10.0 12.0			20.0 - 22.0			30.0 - 32.0		
DATE COLLECTED	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAF of 20 [c]	10/8/1991			10/8/1991			12/9/1991			12/9/1991			12/9/1991			12/9/1991		
							Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)																								
Chromium [d]	11	13	117,000	1,703,333	465,000	1.97E+09	3.6	NA		6.1	NA		NS			NS			NS			NS		
Lead	12	8.7	400	800	800	NE	2.5	NA		2.3	NA		NS			NS			NS			NS		
VOLATILE ORGANIC COMPOUNDS (mg/kg)																								
Ethylbenzene	NE	NE	68.4	378	1830	0.26	NS			NS			ND	NA		ND	NA		ND	NA		ND	NA	
Xylenes (total)	NE	NE	814	3,980	743	3	NS			NS			ND	NA		ND	NA		ND	NA		ND	NA	
TOTAL PETROLEUM HYDROCARBONS/ORGANICS (mg/kg)																								
Total Petroleum Hydrocarbons [e]	NE	NE	1,000	2,400	NE	NE	NS			NS			56.6	NA		ND	NA		ND	NA		ND	NA	

TABLE II-9

SWMU 111/112 (Unlined Pit/OWS #2336) Historical Analytical Data from 1986 RI Report [a]

Cannon AFB, New Mexico

FIELD ID							1095			1095			1095		
SAMPLE DEPTH (ft bgs)							40.0 - 42.0			50.0 - 52.0			60.0 - 62.0		
DATE COLLECTED	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAF of 20 [c]	12/9/1991			12/9/1991			12/9/1991		
							Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
METALS (mg/kg)															
Chromium [d]	11	13	117,000	1,703,333	465,000	1.97E+09	NS			NS			NS		
Lead	12	8.7	400	800	800	NE	NS			NS			NS		
VOLATILE ORGANIC COMPOUNDS (mg/kg)															
Ethylbenzene	NE	NE	68.4	378	1830	0.26	ND	NA		ND	NA		ND	NA	
Xylenes (total)	NE	NE	814	3,980	743	3	ND	NA		ND	NA		ND	NA	
TOTAL PETROLEUM HYDROCARBONS/ORGANICS (mg/kg)															
Total Petroleum Hydrocarbons [e]	NE	NE	1,000	2,400	NE	NE	ND	NA		ND	NA		ND	NA	

TABLE II-9
SWMU 111 (Unlined Pit) Historical Analytical Data from 1986 RI Report a
Cannon AFB, New Mexico

Notes:

AFB	Air Force Base
bgs	Below ground surface
DAF	Dilution attenuation factor
ft	Feet
ID	Identification
J	Concentration reported below the method reporting limit
mg/kg	Milligram per kilogram
ND	Not detected
NE	Not established
NMED	New Mexico Environment Department
NS	Not sampled
Qual	Qualifier
RL	Reporting limit
SSL	Soil screening level
SWMU	Solid Waste Management Unit
TPH	Total petroleum hydrocarbon

(a) Woodward-Clyde, 1992, *Remedial Investigation Report for 18 Solid Waste Management Units* , Cannon Air Force Base, New Mexico, October.

(b) Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .

(c) NMED, 2012, Risk Assessment Guidance for Site Investigation and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau Voluntary Remediation Program, NMED, updated June 2012.

(d) In the absence of a total chromium screening level, chromium (III) is used. (NMED,2012)

(e) Value is for kerosene and jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program.

TABLE II-10

SWMUs 111/112 (unlined Pit and Oil/Water Separator #2336) Soil Analytical Data from 1997 RFI Report [a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAFof 20 [c]	SB14-0101 1.0 – 2.0 23-Feb-97		SB14-0102 2.0 - 3.0 23-Feb-97		SB14-0115 15.0 - 16.0 23-Feb-97	
							Result	Qual	Result	Qual	Result	Qual
METALS (mg/kg)												
Aluminum	8,950	12,214	78,000	1,130,000	40,700	1,100,000	3,530		6,800		4,650	
Antimony	3.15	16	31.3	454	124	13.2	3.7	J	4.2	J	3.0	J
Arsenic	3.6	4.3	3.9	17.7	53	0.262	1.4		1.8		3.3	
Barium	670	890	15,600	223,000	4,350	6,030	68.4		56.8		192	
Beryllium	0.78	0.73	156	2,260	144	1,150	0.36		0.54		0.38	
Cadmium	0.435	1.3	70.3	897	277	27.5	ND	U	ND	U	ND	U
Calcium	44,800	237,498	NE	NE	NE	NE	2,950		1,580		198,000	
Chromium [d]	11	13	117,000	1,703,333	465,000	1,970,000,000	5.7		7.7		5.3	
Cobalt [e]	6.6	4.7	23	300	NE	NE	2.97		3.47		2.37	
Copper	18.3	8.3	3,130	45,400	12,400	1,030	5.37		5.17		2.97	
Iron	10,100	13,148	54,800	795,000	217,000	12,900	5,280		7,490		3,870	
Lead	12	8.7	400	800	800	NE	21.5		6.9		3.2	
Magnesium	1,930	19,300	NE	NE	NE	NE	702		1,230		4,950	
Manganese	307	333	1,860	26,700	440	1,140	137		97.6		29.7	
Mercury	0.056	0.019	15.6	73.6	13.6	0.654	ND	U	ND	U	ND	U
Nickel	11	15	1,560	22,500	6,190	953	5.3		7.0		5.5	
Potassium	2,691	2,512	NE	NE	NE	NE	897		1,350		1,480	
Selenium	0.26	1.1	391	5,680	1,550	19.3	0.083	J	ND	U	ND	U
Silver	0.4	2.7	391	5,680	1,550	31.3	ND	U	ND	U	ND	U
Sodium	102	1,227	NE	NE	NE	NE	100		57.4		281	
Thallium	0.6	2.65	0.782	11.4	3.1	0.52	ND	U	ND	U	ND	U
Vanadium	23	33	391	5,680	1,550	3,650	12.9		15.4		18	
Zinc	32	31	23,500	341,000	92,900	13,600	11.9		14.5		8.7	
Cyanide (total)	NE	NE	46.9	681	186	4.41	ND	U	ND	U	ND	U

TABLE II-10

SWMUs 111/112 (unlined Pit and Oil/Water Separator #2336) Soil Analytical Data from 1997 RFI Report [a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAFof 20 [c]	SB14-0101 1.0 – 2.0 23-Feb-97		SB14-0102 2.0 - 3.0 23-Feb-97		SB14-0115 15.0 - 16.0 23-Feb-97	
							Result	Qual	Result	Qual	Result	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
1,1,1,2-Tetrachloroethane	NA	NA	29.1	161	779	0.0329	ND	U	ND	U	ND	U
1,1,1-Trichloroethane	NA	NA	15,600	78,900	14,800	58.2	ND	U	ND	U	ND	U
1,1,2,2-Tetrachloroethane	NA	NA	8.02	43.5	221	0.00426	ND	U	ND	U	ND	U
1,1,2-Trichloroethane	NA	NA	2.81	13.3	472	0.00223	ND	U	ND	U	ND	U
1,1-Dichloroethane	NA	NA	64.5	359	1,700	0.12	ND	U	ND	U	ND	U
1,1-Dichloroethene	NA	NA	449	2,290	432	2.32	ND	U	ND	U	ND	U
1,1-Dichloropropene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
1,2,3-Trichlorobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
1,2,3-Trichloropropane	NA	NA	0.0497	37.6	7.23	0.00005	ND	U	ND	U	ND	U
1,2,4-Trichlorobenzene	NA	NA	73	367	68.7	0.183	ND	U	ND	U	ND	U
1,2,4-Trimethylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
1,2-Dibromo-3-Chloropropane	NA	NA	1.86	1.08	5.07	0.000022	ND	U	ND	U	ND	U
1,2-Dibromoethane	NA	NA	0.588	3.22	16	0.000308	ND	U	ND	U	ND	U
1,2-Dichlorobenzene	NA	NA	2,310	14,000	2,710	5.6	ND	U	ND	U	ND	U
1,2-Dichloroethane	NA	NA	7.89	43.5	58.7	0.00711	ND	U	ND	U	ND	U
1,2-Dichloropropane	NA	NA	15.2	84.4	25	0.0214	ND	U	ND	U	ND	U
1,3,5-Trimethylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
1,3-Dichloropropane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	NA	NA	31.7	177	831	0.0639	ND	U	ND	U	ND	U
2,2-Dichloropropane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
2-Butanone	NA	NA	37,100	375,000	84,300	25.5	ND	U	ND	U	ND	U
2-Chlorotoluene	NA	NA	1,560	22,700	6,190	11.2	ND	U	ND	U	ND	U
2-Hexanone	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4-Chlorotoluene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4-Methyl-2-Pentanone	NA	NA	5,820	73,800	18,500	7.68	ND	U	ND	U	ND	U
Acetone	NA	NA	66,600	868,000	221,000	77.1	ND	U	ND	U	ND	U
Benzene	NA	NA	15.4	84.7	138	0.0345	ND	U	ND	U	ND	U

TABLE II-10

SWMUs 111/112 (unlined Pit and Oil/Water Separator #2336) Soil Analytical Data from 1997 RFI Report [a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAFof 20 [c]	SB14-0101 1.0 – 2.0 23-Feb-97		SB14-0102 2.0 - 3.0 23-Feb-97		SB14-0115 15.0 - 16.0 23-Feb-97	
							Result	Qual	Result	Qual	Result	Qual
Bromobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Bromochloromethane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Bromodichloromethane	NA	NA	5.41	30.1	143	0.00541	ND	U	ND	U	ND	U
Bromoform	NA	NA	616	2,420	4,760	12.1	ND	U	ND	U	ND	U
Bromomethane	NA	NA	16.5	86.5	16.4	0.0385	ND	U	ND	U	ND	U
Carbon Disulfide	NA	NA	1,530	8,330	1,580	5.65	ND	U	ND	U	ND	U
Carbon Tetrachloride	NA	NA	10.8	59.8	226	0.0321	ND	U	ND	U	ND	U
Chlorobenzene	NA	NA	376	2,120	406	0.984	ND	U	ND	U	ND	U
Chloroethane	NA	NA	29,800	141,000	26,100	107	ND	U	ND	U	ND	U
Chloroform	NA	NA	5.86	32.7	154	0.00918	ND	U	ND	U	ND	U
Chloromethane	NA	NA	275	1,290	241	0.879	ND	U	ND	U	ND	U
cis-1,2-dichloroethene	NA	NA	156	2,270	619	0.367	ND	U	ND	U	ND	U
cis-1,3-Dichloropropene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Dibromochloromethane	NA	NA	12.1	62.4	332	0.00661	ND	U	ND	U	ND	U
Dibromomethane	NA	NA	51.6	254	3,100	0.0342	ND	U	ND	U	ND	U
Dichlorodifluoromethane	NA	NA	168	798	149	7.43	ND	U	ND	U	ND	U
Ethylbenzene	NA	NA	68.4	378	1,830	0.26	ND	U	ND	U	ND	U
Hexachlorobutadiene	NA	NA	61.1	246	238	0.257	ND	U	ND	U	ND	U
Isopropylbenzene	NA	NA	2,430	14,500	2,810	17.3	ND	U	ND	U	ND	U
m & p-Xylene	NA	NA	774	3,780	705	3.12	ND	U	ND	U	ND	U
Methylene Chloride	NA	NA	409	4,700	1,120	0.824	ND	U	ND	U	ND	U
Naphthalene	NA	NA	43	241	158	0.0713	ND	U	ND	U	ND	U
n-Butylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
n-Propylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
o-Xylene	NA	NA	898	4,410	823	3.13	ND	U	ND	U	ND	U
p-Isopropyltoluene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
sec-Butylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Styrene	NA	NA	7,280	50,000	9,990	27.7	ND	U	ND	U	ND	U
tert-Butylbenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U

TABLE II-10

SWMUs 111/112 (unlined Pit and Oil/Water Separator #2336) Soil Analytical Data from 1997 RFI Report [a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAFof 20 [c]	SB14-0101 1.0 – 2.0 23-Feb-97		SB14-0102 2.0 - 3.0 23-Feb-97		SB14-0115 15.0 - 16.0 23-Feb-97	
							Result	Qual	Result	Qual	Result	Qual
Tetrachloroethene	NA	NA	7.02	36.6	212	0.00861	ND	U	ND	U	ND	U
Toluene	NA	NA	5,270	57,700	13,400	25.3	ND	U	ND	U	ND	U
trans-1,2-Dichloroethene	NA	NA	270	1,440	273	0.538	ND	U	ND	U	ND	U
trans-1,3-Dichloropropene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Trichloroethene	NA	NA	8.77	41.3	7.68	0.0211	ND	U	ND	U	ND	U
Trichloroflouromethane	NA	NA	1,410	6,940	1,300	17.8	ND	U	ND	U	ND	U
Vinyl Chloride	NA	NA	0.728	26.1	149	0.00108	ND	U	ND	U	ND	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
1,2,4-Trichlorobenzene	NA	NA	73	367	68.7	0.183	ND	U	ND	U	ND	U
1,2-Dichlorobenzene	NA	NA	2,310	14,000	2,710	5.6	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	NA	NA	31.7	177	831	0.0639	ND	U	ND	U	ND	U
2,4,5-Trichlorophenol	NA	NA	6,110	68,400	23,800	207	ND	U	ND	U	ND	U
2,4,6-Trichlorophenol	NA	NA	61.1	684	238	2.07	ND	U	ND	U	ND	U
2,4-Dichlorophenol	NA	NA	183	2,050	715	2	ND	U	ND	U	ND	U
2,4-Dimethylphenol	NA	NA	1,220	13,700	4,760	13.3	ND	U	ND	U	ND	U
2,4-Dinitrophenol	NA	NA	122	1,370	476	1.26	ND	U	ND	U	ND	U
2,4-Dinitrotoluene	NA	NA	15.7	61.8	476	0.0449	ND	U	ND	U	ND	U
2,6-Dinitrotoluene	NA	NA	61.1	684	238	0.77	ND	U	ND	U	ND	U
2-Chloronaphthalene	NA	NA	6260	90,800	24,800	227	ND	U	ND	U	ND	U
2-Chlorophenol	NA	NA	391	5,680	1,550	2.31	ND	U	ND	U	ND	U
2-Methylnaphthalene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
2-Methylphenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
2-Nitroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
2-Nitrophenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
3,3'-Dichlorobenzidine	NA	NA	10.8	42.6	364	0.148	ND	U	ND	U	ND	U
3-Nitroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4,6-Dinitro-2-Methylphenol	NA	NA	4.89	54.7	19.1	0.0762	ND	U	ND	U	ND	U
4-Bromophenyl-Phenylether	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U

TABLE II-10

SWMUs 111/112 (unlined Pit and Oil/Water Separator #2336) Soil Analytical Data from 1997 RFI Report [a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAFof 20 [c]	SB14-0101 1.0 – 2.0 23-Feb-97		SB14-0102 2.0 - 3.0 23-Feb-97		SB14-0115 15.0 - 16.0 23-Feb-97	
							Result	Qual	Result	Qual	Result	Qual
4-Chloro-3-Methylphenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4-Chloroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4-Chlorophenyl-Phenylether	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4-Methylphenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4-Nitroaniline	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
4-Nitrophenol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Acenaphthene	NA	NA	3,440	36,700	18,600	338	ND	U	ND	U	ND	U
Acenaphthylene	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Anthracene	NA	NA	17,200	183,000	66,800	5,410	ND	U	ND	U	ND	U
Benzo(a)Anthracene	NA	NA	1.48	23.4	213	1.57	ND	U	ND	U	ND	U
Benzo(a)Pyrene	NA	NA	0.148	2.34	21.3	0.52	ND	U	ND	U	ND	U
Benzo(b)Fluoranthene	NA	NA	1.48	23.4	213	5.31	ND	U	ND	U	ND	U
Benzo(k)Fluoranthene	NA	NA	14.8	234	2,060	52	ND	U	ND	U	ND	U
Benzoic Acid	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Benzyl Alcohol	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Bis(-2-Chloroethoxy)Methane	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Bis(-2-Chloroethyl)Ether	NA	NA	2.68	14.2	77.8	0.000527	ND	U	ND	U	ND	U
Bis(2-Chloroisopropyl)Ether	NA	NA	91.5	454	3,100	0.0466	ND	U	ND	U	ND	U
Bis(2-Ethylhexyl)Phthalate	NA	NA	347	1,370	4,760	172	ND	U	ND	U	ND	U
Butylbenzylphthalate	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Chrysene	NA	NA	148	2,340	20,600	160	ND	U	ND	U	ND	U
Dibenzo(a,h)Anthracene	NA	NA	0.148	2.34	21.3	1.69	ND	U	ND	U	ND	U
Dibenzofuran	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Diethylphthalate	NA	NA	48,900	547,000	191,000	193	ND	U	ND	U	ND	U
Dimethyl Phthalate	NA	NA	611,000	6,840,000	2,380,000	1,610	ND	U	ND	U	ND	U
Di-N-Butylphthalate	NA	NA	6,110	68,400	23,800	139	ND	U	ND	U	ND	U
Di-N-Octyl Phthalate	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
Fluoranthene	NA	NA	2,290	24,400	8,910	2,430	ND	U	ND	U	ND	U
Fluorene	NA	NA	2,290	24,400	8,910	406	ND	U	ND	U	ND	U

TABLE II-10

SWMUs 111/112 (unlined Pit and Oil/Water Separator #2336) Soil Analytical Data from 1997 RFI Report [a]

Cannon AFB, New Mexico

FIELD ID **SAMPLE DEPTH (ft bgs)** **DATE COLLECTED**	Background Concentrations for Surface Soil [b]	Background Concentration for Subsurface Soil [b]	Residential SSL/TPH Screening Guideline [c]	Industrial SSL/TPH Screening Guideline [c]	Construction Worker SSL Screening Guideline [c]	Risk-Based SSL for a DAFof 20 [c]	SB14-0101 1.0 – 2.0 23-Feb-97		SB14-0102 2.0 - 3.0 23-Feb-97		SB14-0115 15.0 - 16.0 23-Feb-97	
							Result	Qual	Result	Qual	Result	Qual
Hexachlorobenzene	NA	NA	3.04	12	103	0.0796	ND	U	ND	U	ND	U
Hexachlorobutadiene	NA	NA	61.1	246	238	0.257	ND	U	ND	U	ND	U
Hexachlorocyclopentadiene	NA	NA	367	4,100	811	10.5	ND	U	ND	U	ND	U
Hexachloroethane	NA	NA	42.8	479	167	0.164	ND	U	ND	U	ND	U
Indeno(1,2,3-cd)Pyrene	NA	NA	1.48	23.4	213	17.3	ND	U	ND	U	ND	U
Isophorone	NA	NA	5,120	137,000	47,500	3.84	ND	U	ND	U	ND	U
Naphthalene	NA	NA	43	241	158	0.0713	ND	U	ND	U	ND	U
Nitrobenzene	NA	NA	53.5	300	332	0.0125	ND	U	ND	U	ND	U
N-Nitroso-Di-N-Propylamine	NA	NA	NE	NE	NE	NE	ND	U	ND	U	ND	U
N-Nitrosodiphenylamine	NA	NA	993	3,910	33,600	11.3	ND	U	ND	U	ND	U
Pentachlorophenol	NA	NA	8.94	30	310	0.256	ND	U	ND	U	ND	U
Phenanthrene	NA	NA	1,830	20,500	7,150	571	ND	U	ND	U	ND	U
Phenol	NA	NA	18,300	205,000	68,800	99.5	ND	U	ND	U	ND	U
Pyrene	NA	NA	1,720	18,300	6,680	1,790	ND	U	ND	U	ND	U
Total Petroleum Hydrocarbons (mg/kg)												
Total Petroleum Hydrocarbons [t]	NE	NE	1,000	2,400	NE	NE	**1,040**		17.6		17.9	

TABLE II-10

SWMUs 111/112 (unlined Pit and Oil/Water Separator #2336) Soil Analytical Data from 1997 RFI Report a

Cannon AFB, New Mexico

Notes:

SB14-0101 = Soil boring location number (SB14); and sample depth (0101 = 1.0 – 2.0 ft bgs)

AFB	Air Force Base
bgs	Below ground surface
DAF	Dilution attenuation factor
EPA	U.S. Environmental Protection Agency
ft	Feet
ID	Identification
J	Concentration reported below the method reporting limit
mg/kg	Milligram per kilogram
NA	Not applicable or not available
ND	Not detected
NE	Not established
NMED	New Mexico Environment Department
Qual	Qualifier
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RSL	Regional screening level
SSL	Soil screening level
SWMU	Solid Waste Management Unit
TPH	Total petroleum hydrocarbon
U	Value is below method detection limit/nondetect

(a) Harza, 1997. *Phase II RCRA Facility Investigation Report – Draft 1997 – Fire Training Area No. 4 SWMU Nos. 109, 110, 111, 112* Cannon Air Force Base, New Mexico.

(b) Woodward-Clyde, 1997, *Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico* .

(c) NMED, 2012, Risk Assessment Guidance for Site Investigation and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau Voluntary Remediation Program, NMED, updated June 2012.

(d) In the absence of a total chromium screening level, chromium (III) is used. (NMED,2012)

(e) Value is the EPA RSL from the Mid-Atlantic Risk Assessment, Regional Screening Levels, on-line risk-based concentrations table for Residential Soil: http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm.

(f) Value is for kerosene and jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and Groundwater Quality Bureau, Voluntary Remediation Program.